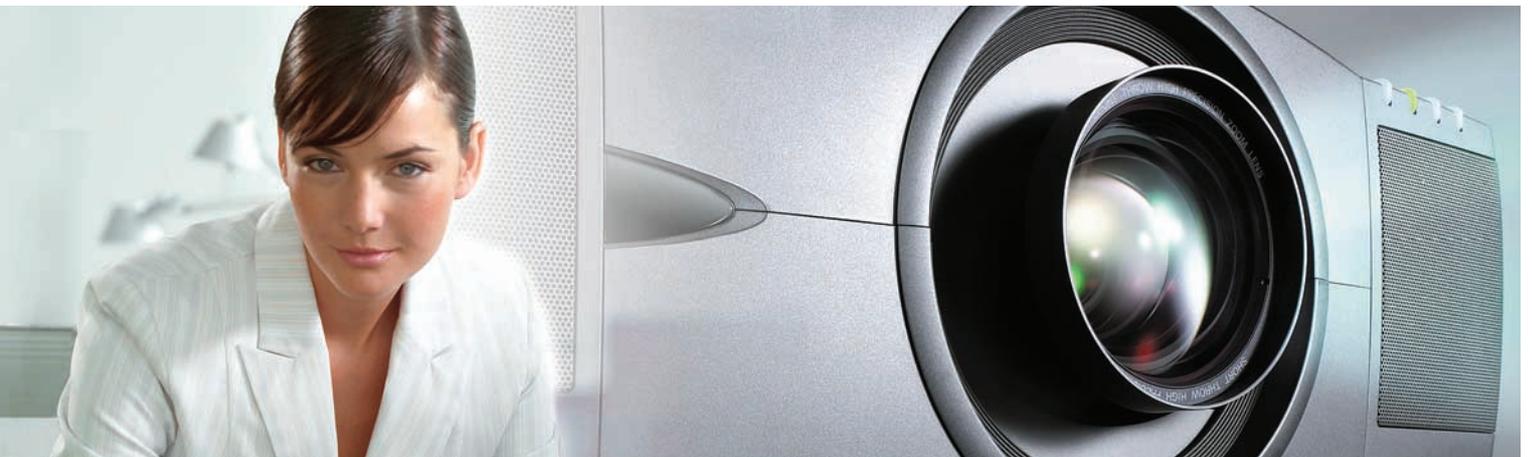# KINDERMANN

PRESENTATION SOLUTIONS 2007 / 08

KINDERMANN

KINDERMANN
The specialist for presentation solutions

Kindermann is one of the leading German manufacturers of presentation and conference equipment and distributes its products worldwide.

Since its foundation in 1861 the company has been committed with light technology, and over the years has developed genuine professionality in projection systems.

Today KINDERMANN offers complete presentation solutions including installation systems for conference and lecture rooms.

DATA/VIDEO PROJECTORS PLASMA/LCD DISPLAYS

CONFERENCE EQUIPMENT INSTALLATION ACCESSORIES

OVERHEAD PROJECTORS SLIDE PROJECTORS

CONFERENCE EQUIPMENT PROJECTION SCREENS

Subject to technical alterations, as well as to changes of the design and the colour

Data/video projectors by KINDERMANN

The versatile KINDERMANN product range comprises data/video projectors of leading manufacturers like EPSON, KINDERMANN, SANYO and TOSHIBA.

All models feature special characteristics to match the requirements of the individual application

- Mobile models for the frequent traveller
- Desktop models with high light output and connectivity
- Installation models with great versatility and maximum light output
- Home cinema models for the digital photograher and movie fan

Mobile models

Frequent travellers with a projector and a notebook in their luggage appreciate small weight, between 1 and 2 kg. The light output should be at least 1500 ANSI lumens for projections even in light rooms.

Because of the small size of the units connectivity is limited to the most important sources, normally an RGB/VGA input for the computer signal as well as S-Video and Video input and a Audio input.

Desktop models

The dominant features are high quality and performance. The light output varies between 2000 and 4000 ANSI lumens. Zoom lenses with a bigger focal length for greater projection distances are customary.

Moreover, special presentation aids are standard, such as picture-in-picture function, navigation of the computer mouse via remote control and a good on-screen menu with several storable pre-sets.

Installation models

In the upper range the light output has increased over the years and is now exceeding 10000 ANSI lumens. The important features are: a wide spectrum of inter-changeable lenses, high operation safety, due to several lamps and the option of remote maintenance and remote control via a multimedia control unit, e.g. via a network connection.

Home cinema models

The amateur who cares about photography and film has high expectations when it comes to projecting images, no matter whether these are slides, pictures or videos. With the new digital technologies procedures have changed considerably, but not demands as to picture quality.

The KINDERMANN KWD 220X, the various models by EPSON, e.g. the TW D3, TW 700 and TW 1000, as well as the other projectors in the KINDERMANN programme meet the demands of the home cinema user.

The following pages of the catalogue provide you with detailed information about the different ranges.
For more details and technical data of all units please visit our website: www.kindermann.com!

KINDERMANN KXD 50

The compact projector with light weight

- **Elegant design, 1.2 kg only**
- **Powerful 1800 ANSI lumens**

KINDERMANN	KXD 50
Ref. No.	8952
Display type	DLP
Resolution	XGA
ANSI lumens	1800
Weight in kg	1.2

Features
- Long lamp life
  (4000 hours in ECO mode)
- Various colour modes to comply with different image sources
- Remote control with laser pointer

KINDERMANN KXD 140 / KSD 140

The projectors for education and business

- 2200 ANSI lumens (KXD 140)
  2000 ANSI lumens (KSD 140)

- High contrast 2000:1

- Serial interface RS 232

KINDERMANN	KXD 140	KSD 140	
Ref. No.	8793	8797	
Display type	DLP	DLP	
Resolution	XGA	SVGA	
ANSI lumens	2200	2000	
Weight in kg	2.2	2.2	

Features

- Easy installation and operation
- HDTV compatible
- Excellent value

KINDERMANN KXD 165 / KSD 160

The ideal business projectors

- 2600 ANSI lumens (KXD 165)
  2200 ANSI lumens (KSD 160)

- High contrast 2000:1

- Low fan noise

KINDERMANN	KXD 165	KSD 160	
Ref. No.	8951	8955-10	
Display type	DLP	DLP	
Resolution	XGA	SVGA	
ANSI lumens	2600	2200	
Weight in kg	2.2	2.2	

Features

- Inexpensive spare lamp
- Excellent video presentation when white segment switched off
- Monitor output and serial interface RS 232

Subject to technical alterations, as well as to changes of the design and the colour

KINDERMANN KX 170
The proper projector for conference and lecture rooms

- High connectivity
- DVI-D input
- Monitor output and serial interface RS 232

3LCD

KINDERMANN	KX 170
Ref. No	8796
Display type	LCD
Resolution	XGA
ANSI lumens	2500
Weight in kg	3.2

Features

- Easy installation and operation
- HDTV compatible
- Component video input
- Excellent value

KINDERMANN KXD 2650
The powerful business projector

- Multi-compatibility for computer and video
- High contrast 2000:1
- Low fan noise

DLP
A TEXAS INSTRUMENTS TECHNOLOGY

KINDERMANN	KXD 2650
Ref. No.	8964
Display type	DLP
Resolution	XGA
ANSI lumens	3800
Weight in kg	3.0

Features

- For large images or sunlit rooms
- Serial interface RS 232
- Monitor output

Subject to technical alterations, as well as to changes of the design and the colour

KINDERMANN KX 2900 active
The multi-talent for interactive presentation

- 2600 ANSI lumens
- Interactive functions integrated – NEW
- Works with any projection surface
- For a more attentive audience

3LCD

KINDERMANN	KX 2900 active
Ref. No.	8799
Display type	LCD
Resolution	XGA
ANSI lumens	2600
Weight in kg	3.0

Features
- Built-in camera for interactive presentation
- After the installation of the software driver on your laptop you can control your presentation with the help of an electronic telescope pointer.
- The movements of the pointer are mouse-controlled and directly projected on the projection surface.
- Pictures and graphic images can be processed directly on the projection surface and then stored again.

KINDERMANN KX 2950 / 2950 wide
The business projector with outstanding features

- 3200 / 3000 ANSI lumens
- 2 VGA inputs, 1 monitor output, serial interface RS 232
- Wide-angle zoom lens (KX 2950)
- Ultra wide-angle zoom lens for a 1 m image width at only 1 m distance (KX 2950 wide)

3LCD

KINDERMANN	KX 2950	KX 2950 wide
Ref. No.	8794	8798
Display type	LCD	LCD
Resolution	XGA	XGA
ANSI lumens	3200	3000
Weight in kg	2.9	3.3

Features
- 3 automatic functions: Keystone correction, brightness control, sensor for ceiling mounting
- IR remote control with mouse and laser pointer
- KX 2950 wide ideal for smaller rooms, for rear projection or work with an interactive board

KINDERMANN KX 4000
The high-performance projector for permanent installation

3LCD

- Multi-compatibility for computer and video
- Automatic positioning for ceiling mounting
- High light output

KINDERMANN	KX 4000
Ref. No.	7295
Display type	LCD
Resolution	XGA
ANSI lumens	4000
Weight in kg	5.5

Features

- Horizontal and vertical Keystone correction
- Serial interface RS 232
- Picture-in-picture function
- Video component and DVI input
- IR remote control with mouse and laser pointer
- Lamp change on top, ideal for ceiling mounting

KINDERMANN KWD 220 X
The home cinema projector for a photo realistic AV show

PICTURE BY DLP

- 2000 (super) / 1500/1200 (eco) ANSI lumens
- WXGA resolution (1280x768 pixels) for PC 16:10 format
- 720p resolution for video format 16:9
- Digital HDMI interface, HD ready

KINDERMANN	KWD 220 X
Ref. No.	8795
Display type	DLP
Resolution	WXGA
ANSI lumens	1500
Weight in kg	3.0

Features

- For digital images
- 6-segment colour wheel RGBCYM for true natural colours, enhances brightness and colour intensity
- 30 bit video processing (1 billion colours) for even better contrast
- Very low fan noise

Technical data KINDERMANN range

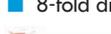| Model	KXD 50	KXD 140/ KSD 140	KXD 165/ KSD 160	KX 170	KXD 2650	KX 2900 active°/ KX 2950/wide*	KX 4000	KWD 220 X
Ref. No.	8952	8793 / 8797	8951 / 8955-10	8796	8964	8799/8794/8798	7295	8795
Resolution	1024 x 768	1024 x 768 / 800 x 600	1024 x 768 / 800 x 600	1024 x 768	1024 x 768	1024 x 768	1024 x 768	1280 x 768 (WXGA)
ANSI lumens	1800 (1500 eco)	2200 (1700 eco) / 2000 (1600 eco)	2600 (2100 eco) / 2200 (1700 eco)	2500 (2000 eco)	3800 (3000 eco)	2600 (2100 eco) / 3200 (2600 eco) / 3000 (2400 eco)	4000 (3200 eco)	2000 (super) 1500 (1200 eco)
Display	1 x 0.7" DLP	1 x 0.55" DLP RGB-W	1 x 0.55" DLP RGB-W	3 x 0.63" PSi-LCD	1 x 0.7" DLP RGB-W	3 x 0.63" PSi-TFT	3 x1.0" PSi-TFT with MLA	1 x 0.65" DLP, RGBCYM
Contrast ratio	2000:1	2000:1	2000:1	400:1	2000:1	500:1	400:1	2000:1
Supported resolutions	VGA,SVGA, XGA,SXGA	VGA,SVGA, XGA,SXGA	VGA,SVGA, XGA,SXGA	VGA,SVGA, XGA,SXGA	VGA,SVGA, XGA,SXGA	VGA,SVGA, XGA,SXGA	VGA,SVGA,XGA, SXGA, UXGA	VGA, SVGA, XGA, WXGA, SXGA
Frequency: H-/V-Sync	31–79 kHz, 50–85 kHz	31,79 kHz, 50–85 Hz	31–79 kHz, 50–85 Hz	15–80 kHz, 50–85 Hz	15–80 kHz, 50–85 Hz	15–69 kHz, 43–85 Hz	15–107 kHz, 42–120 Hz	15-80 kHz, 50-85 Hz
Lens in mm	25.8–30.0	19.9–21.9	18–21.57/ 20,2–24,2	18.85–22.63	23.6–28.25	18.6–22.3/ 13–15.6 *	33.0–43.0	23.6–28.25
Image size diagonal	1–7 m	0.85–6.4 m	1.2–10 m	0.7–8 m	0.8–7.7 m	1–7.68 m/ 0,5–7,68 * m	0.77–7.7 m	0.8–7.7 m
Projection distance	1.5–10 m	1.2–12 m	0,7–7 m	1.0–10 m	1.2–10 m	1.1–10.5 m/ 0.5–7.4 *	1.0–10 m	1.2–10 m
Ratio	1.75–2.15 : 1	1.75–1.85 : 1	1.6– 1.9 : 1 1.85–2.2 : 1	1.5–1.8 : 1	1.6–1.9 : 1	1.45–1.75 : 1/ 1–1.21 : 1*	1.6–2.1 : 1	1.7–2.01 : 1 (16:10)
Projection lamp	156 W	200 / 150 W	230 / 200 W	205 W	300 W	205 W	250 W	230 W
Voltage	100–240 VAC, 50–60 Hz	100–240 VAC, 50–60 Hz	100–240 VAC, 50–60 Hz	100–240 VAC, 50–60 Hz	100–240 VAC, 50–60 Hz	100–240 VAC, 50–60 Hz	100–240 VAC, 50–60 Hz	100–240 VAC, 50–60 Hz
Noise level approx. normal (eco mode)	36 (34) dB	32 (30) dB	32 (30) dB	34 (32) dB	34 (32) dB	32 / 33 (30) dB 34 (31) dB *	36 (33) dB	30 (28) dB
Dimensions in mm	200 x 65 x 165	255 x 102 x 223	265 x 97 x 202	298 x 98 x 224	290 x 95 x 220	310 x 98 x 270/ 330 x 116 x 270 *	365 x 115 x 285	290 x 95 x 220
Weight in kg	1.2	2.2	2.2	3.2	3.0	3.0 / 2.9 / 3.3	5.5	3.0
INPUT / OUTPUT								
Computer (VGA)	1 x HD 15	1 x HD 15	1 x HD 15	1 x HD 15	1 x HD 15	2 x HD 15	1 x HD 15, 1 x via DVI-I	1 x HD 15
Digital	–	–	–	1 x DVI-D	–	–	1 x DVI-I	1 x HDMI
Video	1 x Cinch	1 x Cinch	1 x Cinch	1 x Cinch	1 x Cinch	1 x Cinch	1 x Cinch	1 x Cinch
S-Video	1 x 4 Pin Mini DIN	1 x 4 Pin Mini DIN	1 x 4 Pin Mini DIN	1 x 4 Pin Mini DIN	1 x 4 Pin Mini DIN	1 x 4 Pin Mini DIN	1 x 4 Pin Mini DIN	1 x 4 Pin Mini DIN
Component Video	via VGA	via VGA	via VGA	1 x Cinch x 3	via VGA	via VGA Comp 2	1 x Cinch x 3	1 x Cinch x 3
Serial interface	–	1 x DBG	1 x 6 Pin Mini DIN (PS/2)	1 x 6 Pin Mini DIN (PS/2)	1 x 6 Pin Mini DIN (PS/2)	1 x 8 Pin Mini DIN	1 x DB 9	1 x 6 Pin Mini DIN (PS/2)
Mouse interface	–	–	–	–	1 x USB (Page up/down)	1 x USB	1 x USB/B	–
Audio (Computer)	1 x 3.5 mm jack	1 x 3.5 mm jack	1 x 3.5 mm jack	1 x 3.5 mm jack	1 x 3.5 mm jack	1 x 3.5 mm jack	2 x 3.5 mm jack	1 x Cinch x 2
Audio (Video)	–	–	–	–	–	–	1 x Cinch	–
Monitor out	–	–	1 x HD 15	1 x HD 15	1 x HD 15	1 x HD 15	1 x HD 15	–
Audio out	–	–	–	–	–	1 x 3.5 mm jack	1 x 3.5 mm jack	–
FEATURES								
Keystone correction (digital)	vert. ± 15°	vert. ± 15°	vert. ± 15°	vert. ± 15°	vert. ± 30°	vert. ± 30°	vert. ± 15° hor. ± 15°	vert. ± 30° hor. ± 15°
Loudspeaker	1 x 1 W	1 x 2 W	1 x 2 W	1 x 2 W	1 x 2 W	1 x 2 W	2 x 1 W	1 x 2 W
Supplied with	IR remote control with laser pointer, set of cables, soft bag	IR remote control with laser pointer, set of cables	IR remote control with laser pointer, set of cables, soft bag	IR remote control with laser pointer, set of cables, soft bag	IR remote control with laser pointer, set of cables, soft bag	°incl. interactive functions IR remote control with laser pointer and mouse control, set of cables, filter	IR remote control with laser pointer and mouse control, set of cables	IR remote control with laser pointer, set of cables, soft bag
Warranty	3 years bring-in	3 years bring-in	3 years bring-in	3 years bring-in	3 years bring-in	3 years bring-in	3 years bring-in	3 years bring-in

The TOSHIBA range

Do you seek the ideal business projector, do you work in education, or look for a projector for your home cinema?
TOSHIBA projectors match your needs perfectly – compatible with Windows and Mac, with lamp or LED light source, classic or modern design, with or without camera, wireless or with cable.

TDP FF1

- LED instead of lamp, up to 10,000 hours
- no cooling necessary
- small, compact and light weight

TDP T95/T100 TW95/TW100*

- *W-LAN USB card
- *compatible with network
- security function (passwort, panel lock)

TDP T45

- RS 232 C interface
- low fan noise
- 3-picture mode: bright/standard/true color

TOSHIBA TDP	FF1	T95/T100	TW95/TW100	T45
Ref. No.	8944	8948/8985	8949/8986	8936
Resolution	SVGA	XGA		XGA
ANSI lumens	30 (400 lux)	2200/2600	2200/2600	2500
Dimensions in mm	135 x 55 x 100	300 x 99 x 218		285 x 98 x 254
Weight	0.5 kg	2.9 kg	3.0 kg	2.9 kg

TDP T350/TW350*

- *W-LAN USB card
- *compatible with network
- security function (password, panel lock)

TLP X2000/X2500/X3000

- detachable control panel
- security function (password, panel lock)
- quick start/direct off functions (5 sec.)

TLP XC2000/XC2500/XC3000

identical with the X-models, but with
- document camera (3 mio. Pixels)
- 8-fold digital zoom

TOSHIBA TDP	T350	TW350	X2000	X2500	X3000	XC2000	XC2500	XC3000
Ref. No.	8991	8992	8996	8998	8871	8997	8873	8872
Resolution	XGA		XGA			XGA		
ANSI lumens	3500		2000	2500	3000	2000	2500	3000
Dimensions in mm	340 x 115 x 314	340 x 115 x 328	295 x 81 x 255			370 x 92 x 249		
Weight	4.9 kg	5.5 kg	2.8 kg			4.0 kg		

TLP XD2000

- economy version of model X2000
- without detachable control panel
- colour silver

TLP SX3500

- resolution SXGA+ (1400x1050 pixels)
- lens shift function
- interchangeable lenses available

HD ready

Interchangeable lenses for SX3500

Wide fix – No. 8821-0
f=16 mm　　 = 1.4–5.8 m　Ratio R= 0.8

Wide zoom – No. 8821-1
f=23–31 mm　 = 0.8–17.7 m Ratio R= 1.1–1.5

Tele zoom 1 – No. 8821-2
f=46–82 mm　 = 0.5–24.1 m Ratio R= 2.2–4.1

Tele zoom 2 – No. 8821-3
f=80–144 mm　 = 0.5–23.9 m Ratio R= 3.9–7.3

TOSHIBA TDP	XD2000	SX3500
Ref. No.	8894	8939
Resolution	XGA	SXGA+
ANSI lumens	2000	3500
Dimensions in mm	295 x 81 x 255	420 x 320 x 160
Weight	2.8 kg	7.7 kg

Subject to technical alterations, as well as to changes of the design and the colour

The SANYO range

SANYO is one of the largest producers of projectors with LCD technology.

SANYO projectors are the proper choice for large audiences and permanent installations in conference halls. Powerful low-budget models for mobile and office use and for home cinemas supplement the programme.

PLC XW50 / XW55	PLC XU74	PLC XU84 / XU87
■ automatic signal recognition ■ direct power on/off ■ very low fan noise 29 db (ECO mode)	■ extremely safe, Key-Lock and Pin-Code-Lock ■ direct power on/off ■ very low fan noise 29 dB (ECO mode)	■ W-LAN via USB Key ■ wide-angle lens ■ compatible with network (RJ45)

SANYO	PLC XW50	PLC XW 55	PLC XU74		PLC XU84	PLC XU87
Ref. No.	8983	8984	8840		8910	8911
Resolution	XGA		XGA		XGA	
ANSI lumens	1500	2000	2500		2000	2500
Contrast ratio	400 : 1		400 : 1		500 : 1	
Image size diagonal	0.76 – 7.62 m		1.0 – 7.62 m		1.01 – 7.62 m	
Projection distance	1.31 – 9.9 m		1.43 – 12.64 m		1.1 – 13.1 m	
Ratio	1.62 : 1		1.78 – 2.14 : 1		1.37 – 2.15 : 1	
Dimensions	330 x 80 x 237 mm		294.5 x 69.5 x 208 mm		294.5 x 69.5 x 208 mm	
Weight	2.9 kg		2.4 kg		2.6 kg	

PLC XU48	PLC XU100 / XU110	PLC XT20 / XT25
■ excellent value ■ vertical Keystone correction	■ W-LAN via USB Key ■ DVI-D input ■ anti-theft device (auto alarm)	■ motorized lens shift (vertical/horizontal) ■ professional connectivity ■ interchangeable lenses available

SANYO	PLC XU48	PLC XU100	PLC XU110	PLC XT20	PLC XT25
Ref. No.	8913	8843	8844	8845	8846
Resolution	XGA	XGA		XGA	
ANSI lumens	3000	4000		3800	4500
Contrast ratio	450 : 1	400 : 1	500 : 1	800 :1	1000 : 1
Image size diagonal	0.83 – 7.59 m	0.83 – 7.62 m		0.76 – 7.6 m	
Projection distance	1.1 – 12 m	1.3 – 10 m		1.2 – 10 m	
Ratio	1.62 – 1.97 : 1	1.62 – 1.97 : 1		1.62 – 2.11 : 1	
Dimensions	298 x 71 x 213 mm	334 x 78 x 232 mm		348 x 156.6 x 444 mm	
Weight	2.7 kg	4.0 kg		10.0 kg	

	PLC XP57L	PLC XF60A / EF60A	PLC XF42 / XF46
	■ Easy lens change ■ lens shift function ■ high connectivity	■ 2-lamp system ■ 11 interchangeable lenses available ■ high connectivity	■ 4-lamp system ■ best light output ■ interchangeable lenses available from extreme wide angle up to extreme tele

SANYO	PLC XP57L	PLC XF60A	PLC EF60A	PLC XF42	PLC XF46
Ref. No.	8974	8975	8976	8838	8977
Resolution	XGA	XGA		XGA	
ANSI lumens	5500	6500	5800	9000	12000
Contrast ratio	1000 : 1	1300 : 1		1100 : 1	1200 : 1
Image size diagonal	depending on lens	depending on lens		depending on lens	
Projection distance	depending on lens	depending on lens		depending on lens	
Ratio	depending on lens	depending on lens		depending on lens	
Dimensions	319 x 168 x 470 mm	518 x 252 x 783 mm		581 x 252 x 783 mm	
Weight	7.9 kg	25.0 kg		37.0 kg	

Interchangeable lenses

PLC XP57L (4:3)

LNS-W32 f= 22,3 mm	= 1.78 - 3.05 m	Ratio R= 0.8	No. 5647-1
LNS-W-31A f= 34 - 48 mm	= 1.02 - 10.2 m	Ratio R= 1.3 - 1.8	No. 5647
LNS-T31A f= 64 - 112 mm	= 1.02 - 10.2 m	Ratio R= 2.4 - 4.3	No. 5681
LNS-T32 f= 112 - 155 mm	= 1.02 - 10.2 m	Ratio R= 4.2 - 6.0	No. 7717
LNS-S30 f= 48.4 - 62.8 mm	= 0.78 - 10.2 m	Ratio R= 1.8 - 2.3	No. 8980

PLC XT20 / XT25

LNS-W10 f= 25 - 33 mm	= 1.0 - 7.6 m	Ratio R= 1.23 - 1.62	No. 7693
LNS-W11 f= 16,51 mm	= 1.27 - 3.81 m	Ratio R= 0.8	No. 8834
LNS-T10 f= 43 - 49 mm	= 0.76 - 7.6 m	Ratio R= 2.12 - 3.39	No. 7695
LNS-T11 f= 69 - 109 mm	= 1.01 - 10.16 m	Ratio R= 3.4 - 5.4	No. 8835

PLC XF42 / XF46 (4:3) (XF60A / EF60A*)

LNS-W01Z f= 45 mm	= 1.02 - 15.84 m = 0.76 - 12.70 m*	Ratio R= 1.2 Ratio R= 1.5*	No. 5636
LNS-W02Z f= 52 - 68 mm	= 1.02 - 15.84 m = 0.76 - 12.70 m*	Ratio R= 1.4-1.8 Ratio R= 1.8-2.3*	No. 5637
LNS-W03 f= 30 mm	= 1.02 - 15.84 m = 0.76 - 12.70 m*	Ratio R= 0.8 Ratio R= 1.0*	No. 5644
LNS-W04 f= 58 - 76 mm	= 1.02 - 15.84 m = 0.76 - 12.70 m*	Ratio R= 1.6 - 2.0 Ratio R= 2.0 - 2.6*	No. 7283
LNS-W05 f= 36 - 50 mm	= 0.76 - 12.70 m*	Ratio R= 1.2 - 1.7*	No. 7284
LNS-W06 f= 45 - 57 mm	= 0.98 - 18.29 m = 0.92 - 20.32 m*	Ratio R= 1.2 - 1.5 Ratio R= 1.5 - 2.0*	No. 8926
LNS-W07 f= 21 mm	= 0.43 - 7.11 m*	Ratio R= 0.7*	No. 8927
LNS-M01Z f= 125 - 162 mm	= 1.02 - 15.84 m = 0.76 - 12.70 m*	Ratio R= 3.5 - 4.5 Ratio R= 4.5 - 5.8*	No. 5639
LNS-T01Z f= 253 mm	= 1.02 - 15.84 m = 0.76 - 12.70 m*	Ratio R= 7.0 Ratio R= 8.9*	No. 5638
LNS-T02 f= 158 - 221 mm	= 1.02 - 15.84 m = 0.76 - 12.70 m*	Ratio R= 4.4 - 6.2 Ratio R= 5.6 - 8.0*	No. 5640
LNS-T03 f= 224 - 325 mm	= 1.02 - 15.84 m = 0.76 - 12.70 m*	Ratio R= 6.2 - 9.1 Ratio R= 8.1-11.6*	No. 7718
LNS-S02Z f= 76 - 98 mm	= 1.02 - 15.84 m = 0.76 - 12,70 m*	Ratio R= 2.0 - 2.6 Ratio R= 2.6 - 3.3*	No. 5646
LNS-S03 f= 97 - 131 mm	= 1.02 - 15.84 m = 0.76 - 12.70 m*	Ratio R= 2.6 - 3.5 Ratio R= 3.3 - 4.5*	No. 5601

Network options (LAN / WLAN)

MultiCard Imager   Wireless Imager   PJ-Net Organizer   PJ-Net Organizer Plus   Network board

Please ask for more details!

Subject to technical alterations, as well as to changes of the design and the colour

The EPSON range

The Epson projectors offer very bright, compatible and versatile presentation solutions as well as excellent portability. Whether you require a high-performance projector for home use or for presentations in various office or conference room environments or wish to create a specialised installation system, Epson has the projector to suit your needs.

EMP 82 / X3 / S4

- quick start and instant off functions
- password protection
- low-noise operation

EMP 1700 / 1710 / 1715*

- *quick start and instant off functions
- light weight model
- *wireless, presentation independent of network and PC

EMP 821

- password protection
- automatic Keystone correction
- monitor output

EPSON	EMP 82	EMP X3	EMP S4	EMP 1700	EMP 1710	EMP 1715	EMP 821
Ref. No.	8891	8890	8888	8882	8883	8884	7369
Resolution	XGA		SVGA	XGA			XGA
ANSI lumens	2000		1800	2200	2700		2600
Contrast ratio	400:1		500:1	400:1			500 : 1
Image size diagonal	0.76 – 7.62 m			0.76 – 7.62 m			0.76 – 7.62 m
Projection distance	0.9 – 11 m		0.9 – 12.1 m	1.0 – 12.1 m			0.86 – 14.73 m
Ratio	1.48 – 1.75		1.49 – 2.0	1.68 – 2.01:1			1.5 – 2.4 : 1
Dimensions	327 x 98 x 246 mm			273 x 68 x 193 mm			350 x 109 x 272 mm
Weight	2.5 kg	2.6 kg		1.6 kg		1.7 kg	4.0 kg

EMP 830 / 835*

- *Easy MP for W-LAN and network
- *USB and PC card connections
- great connectivity

EMP 6100

- sealed casing for maximum durability even in dusty rooms
- network compatibility via RS 232C
- enhanced anti-theft feature

EMP 7900 NL / 7950 NL*

- *W-LAN compatible
- automatic signal detection
- optional colour adaptation (Epson Wall Shot[R])

EPSON	EMP 830	EMP 835	EMP 6100	EMP 7900 NL	EMP 7950 NL
Ref. No.	7637	7638	8885	7359	7307
Resolution	XGA		XGA	XGA	
ANSI lumens	3000		3500	4000	
Contrast ratio	600 : 1		500 : 1	700 : 1	
Image size diagonal	0.76 – 7.62 m		0.76 – 7.62 m	depending on lens	
Projection distance	0.9 – 14.7 m		0.83 – 14.7 m	depending on lens	
Ratio	1.5 – 2.4 : 1		1.48 – 2.42 : 1	depending on lens	
Dimensions	365 x 114 x 280 mm		465 x 146 x 340 mm	419 x 117 x 325 mm	
Weight	4.7 kg		7.0 kg	5.6 kg	

	EMP 8300 NL	EMP TW D3	EMP TW 700 / TW 1000
	■ network compatible installation model ■ Easy MP for W-LAN and network ■ motor zoom focus and lens shift	■ all-in-one home cinema projector ■ integrated JVC DVD player and JVC stereo loudspeaker ■ connection to PC, receiver, digital camera, play stations	■ special home cinema model ■ with whisper fan (26 dB only) ■ super sharp optics by Fujion ■ 7 selectable colour modes

EPSON	EMP 8300 NL	EMP TW D3	EMP TW 700	EMP TW 1000
Ref. No.	5529-1	8880	8881	8879
Resolution	XGA	(854 x 480)	(1280 x 720)	(1920 x 1080)
ANSI lumens	5200	1200	1600	1200
Contrast ratio	1200 : 1	1000 : 1	10000 : 1	12000 : 1
Image size diagonal	depending on lens	0.76 – 7.62 m	0.76 – 7.62 m	
Projection distance	depending on lens	0.73 – 11.37 m	0.93 – 20.35 m	0.87 – 19,15 m
Ratio	depending on lens	1.14 – 1.71 : 1	1.45 – 3.07 : 1	1.36 – 2,85 : 1
Dimensions	352 x 194 x 491 mm	340 x 180 x 310 mm	406 x 124 x 310 mm	
Weight	11.2 kg	7.0 kg	5.4 kg	5.6 kg

Interchangeable lenses

EMP 8300 NL (4:3)

	No. 7604
Standard-Zoom ELP LS02	
f= 53 - 72 mm = 0.76 - 7.62 m Ratio R= 1.81- 2.5	

	No. 7606
Wide/Rear, fix ELP LR02	
f= 25 mm = 1.4 - 3.04 m Ratio R= 0.86	

	No. 7607
Wide, zoom ELP LW02	
f= 38 - 53 mm = 1.01 - 11.36 m Ratio R= 1.29 - 1.84	

	No. 7608
Mid1, zoom ELP LM01	
f= 70 - 105 mm = 1.52 - 7.62 m Ratio R= 2.4 - 3.68	

	No. 7609
Mid2, zoom ELP LM02	
f= 104 - 156 mm = 1.52 - 7.62 m Ratio R= 3.57 - 5.44	

	No. 7611
Long, zoom ELP LL04	
f= 153 - 207 mm = 1.52 - 7.62 m Ratio R= 5.32 - 7.16	

EMP 7900 / 7950 (4:3)

	No. 7612
Mid-Telezoom ELP LM03	
f= 36 - 48 mm = 0.76 - 7.62 m Ratio R= 1.77 - 2.38	

	No. 7613
Long-Telezoom ELP LL05	
f= 49 - 64 mm = 0.76 - 7.62 m Ratio R= 2.37 - 3.19	

	No. 7614
ELP LW03 Standard	
f= 28 - 37 mm = 0.76 - 7.62 m Ratio R= 1.34 - 1.81	

How to find the proper image size:
Projection ratio R = distance : picture width
distance = picture width x projection ratio
picture width = distance : projection ratio
picture width = picture diagonal : 1.25 with 4:3 format (XGA, SVGA)

KINDERMANN WMS 100
Universal W-LAN adapter for d/v projectors

■ Transmits uncompressed images of Wi-Fi compatible PCs or laptops to several SVGA/XGA projectors equipped with hardware adapter

■ Compatible with nearly all projectors with VGA connectivity, Wi-Fi and Ethernet conformity

■ Greater safety of wireless data transmission due to standard WEP-64/-128 bit coding

■ High picture frequency (up to 15 images per second) for safe projection of video clips during presentations

Technical data

No.	8958
Network standards	IEEE 802.11 a/b/g, Ethernet
Band frequency	802.11a: 5 GHz 802.11b/g: 2.4 GHz
Channels	802.11b/g: USA & Canada: 11, Europe: 13, Japan: 14
Transmission rate	802.11a/g: up to 54 Mbps 802.11b: up to 11 Mbps
Transmission range	802.11a: 20 – 30 m depending on room conditions 802.11b/g: 50 – 100 depending on room conditions
Antenna	Frequency range: 2.4 – 2.4835 GHz, 4.9 – 5.85 GHz
Operation temperature	0 - 40 ºC
Room moisture	10 – 85 %, non-condensing
Energy consumption	USA & Taiwan: 5 V, 1 A Europe: 5 V, 1.7 A
Connections	D-Sub 15 pin, RJ-45
Dim. & weight	116 x 79.5 x 26.2 mm / 0.190 kg
Status information	Web-based programme
Resolution	800 x 600, 1024 x 768 pixels
Colour intensity	16-bit / 24-bit / 32-bit
Safety mechanism	64 / 128 bit WEP
Warranty	2 years

Subject to technical alterations, as well as to changes of the design and the colour

The elegant solution for presentations in entrance halls, conference rooms and point-of-sale

Advantages of the LCD technology

- High resolution
- Needle-sharp pictures
- Long life
- No hot spots
- Low energy consumption
- Nearly glare-free

Advantages of the plasma technology

- Optimal video quality
- Quick response
- Long life
- Wide reflection angle
- Superb picture brightness
- High contrast

Point-of-sale

Presentation

CONRAC Plasma displays

CONRAC Optic 32 / 40 HD

- No fan
- HD-Ready
- Complete with stand and integrated loudspeakers

CONRAC Milos 42 HD / 50

- High-quality broadband stereo loudspeakers
- Direct wall mounting possible

CONRAC Syros 42 HD / 50 HD

- New Multi-PIP function
- No fan

Technical data:

Model	CONRAC Optic 32 HD	CONRAC Optic 40 HD	CONRAC MILOS 42 HD	CONRAC MILOS 50	CONRAC SYROS 42 HD	CONRAC SYROS 50 HD
No.	8850-0	8856-0	8852-0	8853-0	8857-0	8858
Technology	TFT	TFT	PDP	PDP	PDP	PDP
Resolution (pixel)	1366 x 768	1366 x 768	1024 x 768	1366 x 768	1024 x 768	1366 x 768
Size of display	698 x 392 mm	885 x 498 mm	922 x 519 mm	1106 x 622 mm	920 x 518 mm	1106 x 622 mm
Brightness cd/m^2	450	500	1200	1000	1100	1000
Contrast	1000 : 1	1000 : 1	10.000 : 1	8.000 : 1	6000:1 (PAL) 10.000:1(NTSC)	10.000 : 1
Dim. in mm	795 x 546 x 109	986 x 649 x 109	1190 x 630 x 100	1412 x 731 x 108	1030 x 626 x 97,2	1203 x 731 x 101
Weight in kg	15.5	29	36.6	47.5	33.1	46.2

Subject to technical alterations, as well as to changes of the design and the colour

LG LCD displays

LG M 3201 C / 3701 C / 4201 C
- HD-Ready, HDMI input with HDCP support
- Integrated image splitter
- RS 232 interface
- BNC Component inputs

LG M 5500 C
- Anti glare surface
- For daylight use
- Integrated loudspeakers 2 x 15 W
- Vertical and ceiling operation

Technical data:

Model	LG M 3201 C	LG M 3701 C	LG M 4201 C	LG M 5500 C
No.	8817-5	8818-5	8814-6	8820-0
Technology	LCD	LCD	LCD	LCD
Resolution (pixel)	1366 x 768	1366 x 768	1366 x 768	1920 x 1080
Size of display	708.4 x 398.5 mm	819.6 x 460.8 mm	930.25 x 523.01 mm	1209.6 x 680.4 mm
Brightness cd/m²	500	500	500	500
Contrast	1600 : 1	1600 : 1	1100 : 1	1000 : 1
Response	8 ms GTG	8 ms	8 ms (grey to grey)	8 ms
Dim. in mm	803 x 493 x 99.9	928 x 571 x 120	1057 x 653 x 119.1	1375 x 878 x 143
Weight in kg	19.3	29	37	55

PIONEER Plasma displays

PIONEER PDP-42/50/60 MXE20
- High contrast and resolution
- Smart cooling system
- Event timer feature
- RS 232 control possible
- Video wall modes for 2x2, 3x3, 4x4 or 5x5 displays
- Picture-and-picture: split screen
- Picture-in-picture
- DVI-D input

Technical data:

Model	PIONEER PDP-42MXE 20	PIONEER PDP-50MXE 20	PIONEER PDP-60MXE20
No.	8785-0	8783-2	8782-1
Technology	Plasma	Plasma	Plasma
Resolution (pixel)	1024 x 768	1365 x 768	1365 x 768
Size of display	921.6 x 515,3 mm	1103.6 x 620.9 mm	1318.6 x 741.9 mm
Brightness cd/m²	1400	1100	1000
Contrast	3000 : 1	4000 : 1	4000 : 1
Dim. in mm	1022 x 610 x 98	1222 x 736 x 99	1470 x 880 x 122
Weight in kg	30.5	35.5	62

SANYO LCD displays

SANYO 32/42 LM4R-E
- Aluminium-coated casing
- Integrated fan
- Oil, smoke and dust resistant
- HD-ready

SANYO 32/42 LM4WPR-E
- Weather proof (IP-56)
- Suitable for outdoor use

Technical data:

Model	SANYO 32LM4R-E	SANYO 32LM4WPR-E	SANYO 42LM4R-E	SANYO 42LM4WPR-E
No.	8831-0	8831-1	8832-0	8832-1
Technology	LCD	LCD	LCD	LCD
Resolution (pixel)	1366 x 768	1366 x 768	1366 x 768	1366 x 768
Brightness cd/m²	550	550	500	500
Contrast	1000 : 1	1000 : 1	800 : 1	800 : 1
Dim. in mm	803 x 493 x 150	803 x 493 x 162	1050 x 654 x 150	1050 x 654 x 162
Weight in kg	20	21.8	36	39.5

Subject to technical alterations, as well as to changes of the design and the colour

Universal projector mounting kits for ceiling and wall mounting

Universal + patented
Due to the variable holder the projector mounts are compatible with nearly any projector weighing max. 25 kg.

3D ball-point joint
For tilting, swivelling and rotating the projector in all 3 dimensions.

Flexible installation
For mounting the projector on the ceiling, on the wall or on the floor and even on sloping surfaces. Standard length of the column up to 200 cm, up to 300 cm length custom-made.

Easy and quick mounting
Due to pre-assembled holders (all Comfort and Professional models)

Certified safety:
- Weight capacity
- Durability
- Easy handling

LGA
Nürnberg
GS
geprüfte
Sicherheit

Quality
made
in
Germany
by KINDERMANN

5 YEARS WARRANTY

Vario Eco line
Low price – universal use

- Metallic silver, RAL 9006 or white RAL 9003
- Variable patented projector holder
- Can hold up to 15 kg weight
- Joint for tilting the unit up to 20° vertically and 10° horizontally
- Extendable in 5 cm steps
- Various distance elements to level the projector bottom
- Scratch-resistent coating
- Supplied with all mounting screws ø M3/M4/M5/M6 mm
- Supplied with cable channel

Vario eco Distance between ceiling and projector 11 cm	**No. 5878-5**
Vario eco 60 Extendable from 40-65 cm in 5 cm steps	**No. 7420-5**
Vario eco 100 Extendable from 60-100 cm in 5 cm steps	**No. 5877-5**
Vario eco 150 Extendable from 103-150 cm in 5 cm steps	**No. 7440-5**

All Vario Eco mounts also available in white colour!
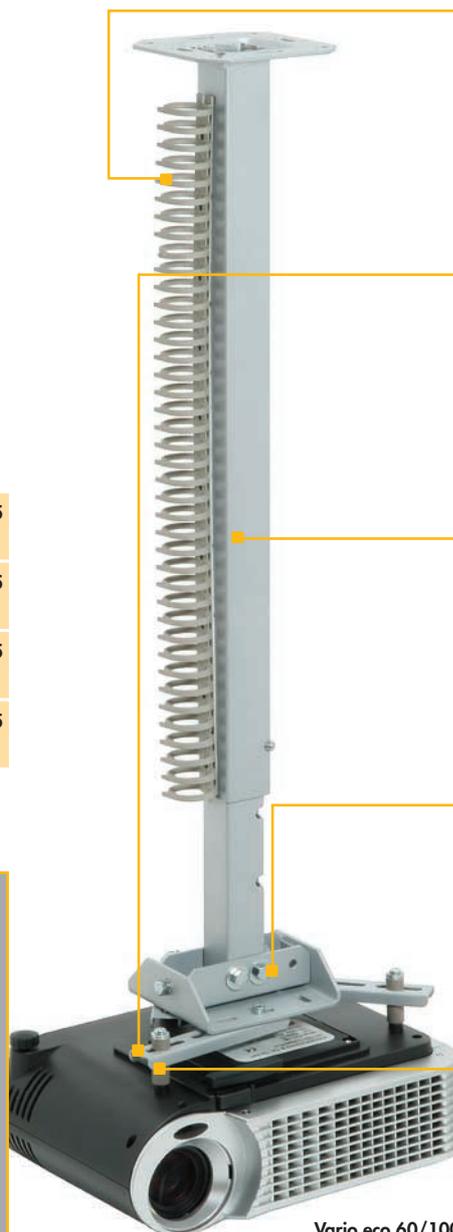
- Cable channel

- Adjustable arms

- Height adjustment in 5 cm steps

- Joint for tilting the unit in 2 directions

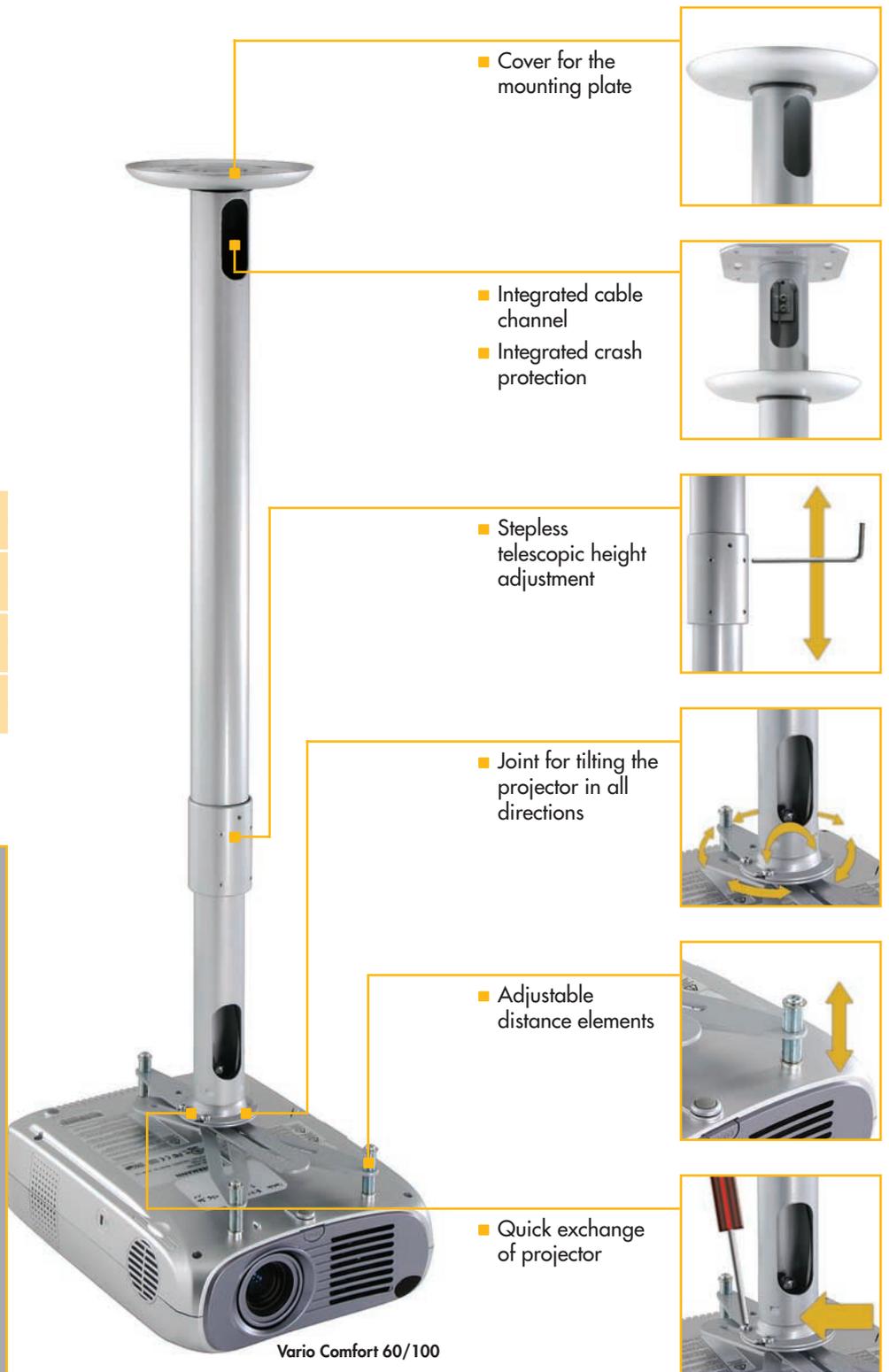- Various distance elements for height adjustment

Vario eco 60/100/150

Vario Comfort line
Modern and elegant design

- Metallic silver colour RAL 9006 or white RAL 9003
- Fully pre-mounted for quick installation
- Variable patented holder suitable for nearly all data/video projectors
- Joint for tilting the unit in all directions, up to ±20°, can be rotated up to ±180°
- Can hold up to 20 kg weight
- Integrated cable channel ø 37 mm
- Quick exchange of projector, e.g. for servicing
- Supplied with cover for covering the ceiling mounting plate or the cutout in case of sloping ceilings
- Stepless telescopic height-adjustment (No. 7437, 7438)
- Crash-protection in the interior of the telescopic tube
- Adjustable distance elements
- Scratch-resistent coating
- Supplied with all mounting screws ø M3/M4/M5/M6 mm
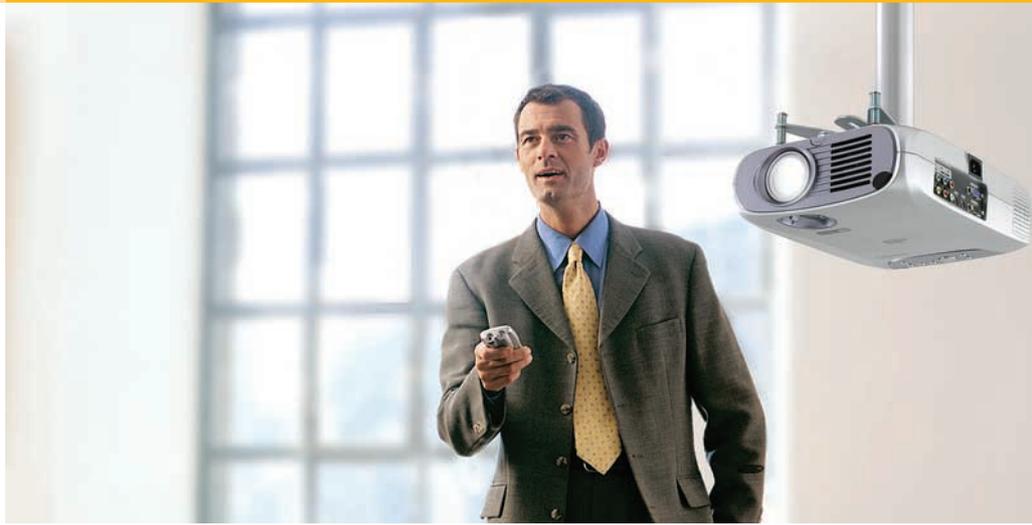
Vario Comfort Distance between ceiling and projector 12 cm	**No. 7436**
Vario Comfort 30 Distance between ceiling and projector 30 cm	**No. 7436-1**
Vario Comfort 60 Extendable from 45-61 cm	**No. 7437**
Vario Comfort 100 Extendable from 65-100 cm	**No. 7438**

All Vario Comfort mounts also available in white colour!

Vario Comfort 30

Cover for the mounting plate

- Integrated cable channel
- Integrated crash protection

- Stepless telescopic height adjustment

- Joint for tilting the projector in all directions

- Adjustable distance elements

- Quick exchange of projector

Vario Comfort 60/100

Vario Professional line
Suitable for any demand

- Variable patented projector holder
- Fully pre-mounted (except 5886-100) for easy mounting
- Can hold up to 25 kg weight
- Stepless telescopic height adjustment (No. 5883-xxx)
- Supplied with external cable channel
- Quick exchange of projector, e.g. for servicing
- Ball-and-socket joint for tilting the unit in all directions up to ±20°, can be rotated up to ±180°, (with 5886-100 depending on the projector dimensions)
- Adjustable distance elements to level the projector bottom
- Coated aluminium column
- Variable adjustable mounting plate for sloping ceilings up to 45°
- Supplied with all mounting screws ø M3/M4/M5/M6 mm
- Up to 300 cm length of the column possible on demand

Vario Pro	No. 5880-100
Distance between ceiling and projector 13 cm	
Vario Pro C 60	**No. 5886-100**
Stepless height-adjustment from 20-60 cm	
Vario Pro 60	**No. 5883-110**
Stepless height-adjustment from 45-60 cm	
Vario Pro 100	**No. 5883-100**
Stepless height-adjustment from 60-100 cm	
Vario Pro 150	**No. 5883-120**
Stepless height-adjustment from 91-150 cm	
Vario Pro 200	**No. 5883-130**
Stepless height-adjustment from 115-200 cm	
Vario Pro W	**No. 5889-100**
For wall mounting	
Vario Pro W 100	**No. 7421-100**
For wall mounting. Stepless height-adjustment from 51-86 cm	

Vario Pro

Vario Pro 60-200, stepless

- Adjustable for sloping ceilings up to 45°

- Supplied with cover

- Supplied with cable channel

- Vario Pro 200 + Pro W 100 supplied with safety rope

- Adjustable arms and adjustable distance elements

- Ball-and socket joint for tilting the unit in all directions
- Quick projector exchange

Vario Pro C 60

Vario Pro W

Vario Pro W 100

Vario Home Cinema CT
Small and inexpensive – for direct ceiling mounting

- Universal mount for fixing projectors on the ceiling
- Ultra flat, elegant unobtrusive design
- Easy to mount
- With specially designed mounting plate for taking off the projector easily
- Compatible with all projectors which have at least two drill-holes M3-M5 at their bottom
- Joint for 3D tilting in all directions +12°, rotates + 180 °

- Can hold up to 10 kg weight
- Colour: metallic silver
- Small shipping carton: only 8x6.5x21 cm

Vario Home Cinema CT	No. 7419
Distance between ceiling and projector 7 cm	

Model with extension tube available on demand!

Flight Frame
Holder for professional data/video projectors for big events

Flight Frame	No. 6360-10

- For large and heavy projectors, e.g. Sanyo XF46, up to a size of 75x62x31 cm and a weight of 75 kg
- For mounting the projector in standing or hanging position
- Pre-made long holds for fixing many different projectors
- Can be hung up at its four hooks or fixed to the ceiling mount 6360-1
- Colour: metallic silver, RAL 9006
- Weight: 14.3 kg

Ceiling mount for Flight Frame	No. 6360-1

- Height-adjustable from 65–100 cm in steps of 5 cm
- Joint for horizontal and vertical tilting (+/- 5°)
- Colour: metallic silver, RAL 9006

Accessories for Vario ceiling and wall mounts

Projector arm	No. 5886-200

- For mounting an additional projector on the Vario Pro C 60.

Carrying tray	No. 5879

- For projectors or other equipment
- Suitable for mounts Vario Eco or Pro
- Surface 32 x 32 cm
- Max. height 16 cm

Vario U	No. 5882

- Universal bracket for projectors without drill-holes
- Suitable for Vario mounts only
- Can hold projectors up to 10 cm height, 25 cm width and 4 kg weight

Cover plate	No. 7429-1

- For covering the mounting plate of the height-adjustable mounts Vario Pro
- Consists of two parts, with perforated cable outlet

Set of 2 clamps	No. 5873

- For fixing the mounts on a tube-shaped support (max. diameter 30-70 mm)

Cover	No. 7429-2

- 2-element cover for height-adjustable mounts Vario Comfort
- For covering the cutout of the ceiling
- Outer diameter: 117 mm

Cable channel Vario Professional	No. 5884

- For all height-adjustable mounts Vario Pro
- Dim. 40 x 40 x 500 mm
- Incl. adhesive tape

Subject to technical alterations, as well as to changes of the design and the colour

Anti-theft devices

Anti-theft device	No. 5775

- For notebooks, projectors etc. with security lock slot
- Plastic coated steel rope
- Length 1.5 m
- Diameter 4 mm

Accoustic anti-theft device	No. 7425

The accoustic anti-theft device with built-in shock sensor triggers off the alarm in two stages (after 8 resp. 4 seconds) when severing the steel rope or when moving the unit.

- 4-digit digital lock
- Can be easily attached to bags or to a security lock slot
- Self-winding corrosion-free steel rope, plastic coated, length 0.9 m, diameter 2.4 mm
- 105 dB alarm
- 9 V battery – battery life 3 months
- Weight: 0.170 kg

Anti-theft device	No. 7426

Heavy-duty steel rope effectively protects projectors which are fixed to a Vario ceiling mount against unauthorized removal.

- Safety rope, 95 cm long, to secure the projector holder on the ceiling
- Safety rope with lock and key makes it impossible to disconnect the projector from the holder.

Safety cages against theft and vandalism

For protection in public buildings, schools, universities, entrance halls and unattended rooms. The opening for the lens is covered by a glass pane.

Safety cage	No. 7426-1

The sturdy cage is made of punched metal sheets, 1 mm thick.

- Dim.: 47 x 45 x 30 cm
- Max. projector size 37 x 37 x 15 cm
- Scratchfree coating, metallic silver (RAL 9006)
- With camlock
- Can be additionally fitted to all height-adjustable ceiling mounts Vario Pro and Eco (except 5886-100).
  Weiaht: ca. 8.2 ka

Projector Safe	No. 7426-2

The housing of the well-designed octagonal projector safe is made of punched metal sheets and does not need any ventilation. It is closed by a high-quality camlock (Burg) and an additional padlock can be installed.

- Dim.: 45 x 44.5 x 29.5 cm
- Max. projector size 40 x 40 x 16 cm
- Scratchfree coating, white (RAL 9003)
- Sturdy camlock (Burg)
- Can be additionally fitted to all height-adjustable ceiling mounts Vario Pro and Eco (except 5886-100).
  Weight: ca. 8.5 kg

Projector Safe XL	No. 7426-3

As 7426-2 but with dim. 60x44.5x29.5 cm
Max. projector size 55 x 40 x 16 cm
Weight: ca. 9.5 kg

Safety cord SK300	No. 7425-10

The safety cord SK300 with 100 dB anti-theft alarm is an intelligent anti-theft device for units with plugs.
The 3 m long SK300 replaces the supplied power cable and connects the unit with the power socket. The alarm is activated via the digits on the plug. If the cord is severed or pulled out of the socket or the unit, the alarm will go off. The SK300 identifies a power black-out. High-voltage protection is integrated. The built-in battery protects the unit 48 hours in case of a power cut.

The anti-theft protection can also be connected with additional units via its loop output.

Please ask about compatibility with other types of plugs!

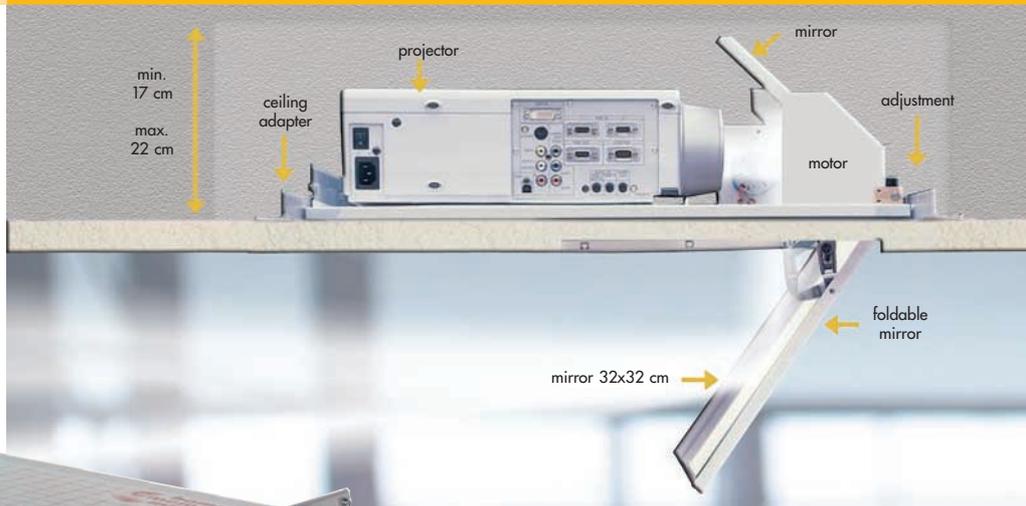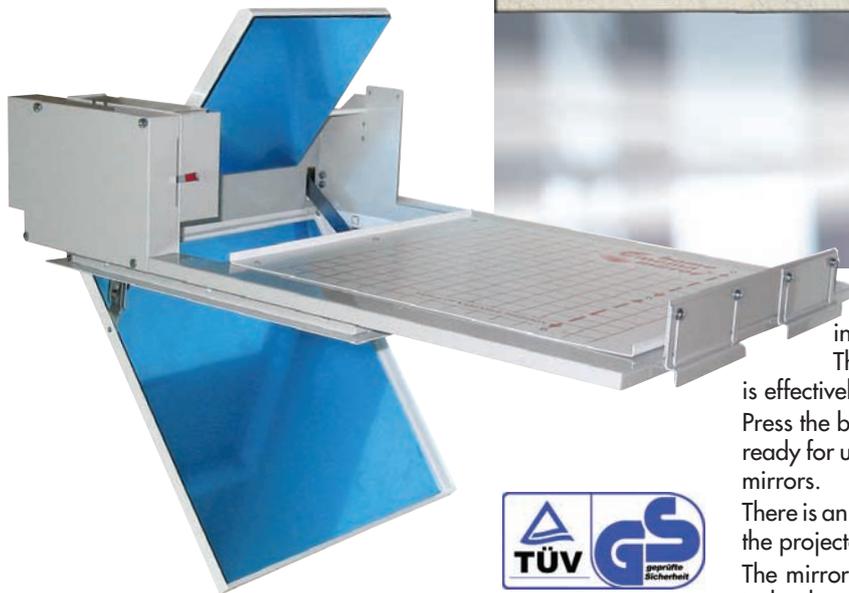| USB loop for SK300	No. 7425-11

For connecting the cord SK 300 with USB interface

The USB loop is connected with the safety cord SK300 and USB interface of an external unit. If the USB plug is disconnected, the pre-activated 100 dB will go off.

Ceiling mirror
for data/video projectors

Mirror projection system for false ceilings

projector
mirror
ceiling adapter
adjustment
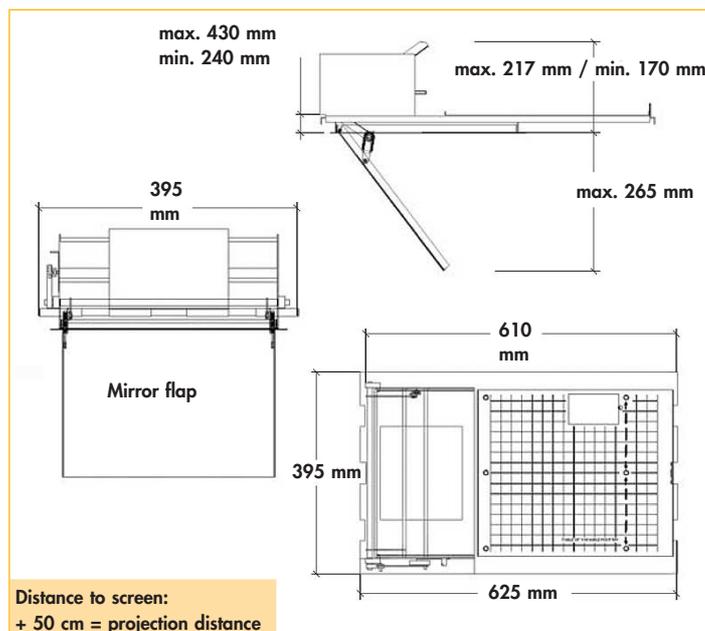min. 17 cm
max. 22 cm
motor
foldable mirror
mirror 32x32 cm

The ceiling mirror makes it possible to install the projector in the space between the room ceiling and the false ceiling. Thus the technology remains invisible. Moreover, the projector is effectively protected against dust, smoke and theft.

Press the button and the foldable mirror opens quietly, the projector is ready for use and projects the image on the screen via two high-quality mirrors.

There is an additional advantage: the fan noise is sharply reduced while the projector is in use.

The mirror is suitable for many standard projectors with LCD or DLP technology.

KINDERMANN ceiling mirror	No. 7467

Mounting material

Mounting kit	No. 7467-10
Consisting of four aluminium profiles, mounting plates and screws. For integrating the ceiling mirror into false ceilings made of wood, plaster etc.	

Mounting plate 63 cm	No. 7467-13
For integrating the ceiling mirror into a false ceiling with grid size 63 cm.	

Hooks for ceiling mounting	No. 7467-14
Installation kit for mounting the ceiling mirror directly on a ceiling. Consisting of 4 mounting plates, 4 poles, threaded, M8, length 100 cm.	

Control

Touch button Busch-Jaeger	No. 7467-11
Reflex Si	

Radio remote control 1-channel	No. 7467-12
Consisting of wall switch with Schuko plug and mobile sender	

1-channel IR remote control	No. 5699-16
Incl. wall switch and mobile sender	

Status sensor for media control	No. 7467-20
Reports the status of the mirror flap (open or closed) to the media control device. Connection to media control via 1 or 2 I/O inputs (for max. 40 V/2A only)	

max. 430 mm
min. 240 mm

max. 217 mm / min. 170 mm

395 mm

max. 265 mm

Mirror flap

610 mm

395 mm

625 mm

**Distance to screen:
+ 50 cm = projection distance**

Technical data

Necessary space for mounting (depending on the adjustment of the upper mirror)	min. 17 cm, max. 22 cm
Max. height of the projector beam	10 cm
Max. length of the projector	45 cm
Projection ratio	min. 1.5:1
Up/down ratio	mind. 9:1
Overall dimensions of the complete mirror system	63 x 40 cm
Overall dimensions of the foldable mirror	33.5 x 33.5 cm
Extension of the foldable mirror	max. 27 cm
Opening time of the foldable mirror	max. 30 seconds
On/off switch 230 VAC/ 1A	optional (No. 7467-11)
Weight	8.2 kg
Voltage	230 VAC / 50 Hz
Power consumption	10 W

Ceiling lifts allow you to install your data/video projector in a false ceiling, e.g. of a conference or lecture room. If not in use the projector is hidden behind the panelling of the ceiling and thus protected against theft.

Quality made in Germany
by KINDERMANN

KINDERMANN ceiling lift Pro 120 / Pro 250

Professional ceiling lift with low noise movements

- Lifting range up to 340 cm
- For projectors of up to 30 kg weight
- Super flat universal projector holder, tiltable
- Maintenance-free Somfy motor
- Special protection of all cables
- Safety switch

Press the button and the projector is lowered and ready for use. The exact position of the unit can be pre-selected.

A safety switch stops the lift on its way down when hitting an obstacle.

For a cutout of the ceiling of min. 74 x 54 cm. Easy mounting.

An optional side panelling (No. 7465-10) is available for mounting the lift directly on the ceiling.

A special device for protecting all projector connections and a 4-pin cable are supplied with each unit.

The lift can be operated by up/down switch, remote or conference control.

Note:
Lifts with lifting range up to 340 cm on demand.

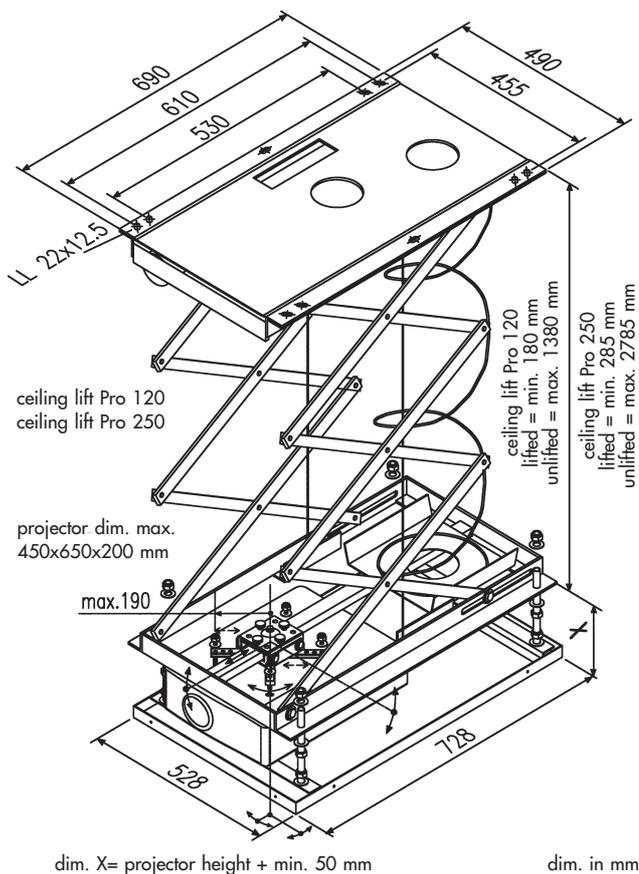|	
KINDERMANN ceiling lift Pro 120	No. 7465
KINDERMANN ceiling lift Pro 250	No. 7465-3

Certified safety:
- Durability proved by long-term testing
- Endurance test with double load
- Free of electro-magnetic interferences
- Corrosion resistant

Technical data

Model	Pro 120	Pro 250
Installation	230 mm + projector height	335 mm + projector height
Projector mounting	at the projektor bottom, with fixing screws (M3/M4/M5/M6), drill-holes between 138 and 378 mm diameter	
Lifting range	up to 120 cm	up to 250 cm
Weight of lift	ca. 32 kg (w/o projector)	ca. 38 kg (w/o projector)
Projector size	max. 45 x 65 x 20 cm	
Projector weight	max. 30 kg	max. 20 kg
Voltage	230 V / 50 Hz	
Mounting frame	690 x 490 mm	
Cutout of ceiling	740 x 540 mm	
Ceiling plate	adjustable steel plate	
Colour	metallic silver grey (RAL 9006) ceiling plate white (RAL 9003)	

Accessories for ceiling lift Pro 120 / Pro 250

Metal panelling for visible mounting on the ceiling, 4 parts, height 40 cm, white colour	No. 7465-10	
T-profile for holding the cutout panelling, note different size of cutout 752x552 mm	No. 7465-20	
Special holder for mounting the projector in an upright position (e.g. Sanyo EF/XF 60), note different size of cutout 800x600 mm	No. 7465-30	
T-profile for special holder No. 7465-30, note different size of cutout 812x612 mm	No. 7465-40	
Fan relais Controls the fan when the ceiling lift is up and the safety switch has cut off the power; up to 10 additional minutes of fan operation; inputs 230 VAC and safety switch; output 230 VAC for power supply of the projector; for Wieland socket system GST 18.	No. 7465-15	

ceiling lift Pro 120
ceiling lift Pro 250

ceiling lift Pro 120 lifted = min. 180 mm unlifted = max. 1380 mm

ceiling lift Pro 250 lifted = min. 285 mm unlifted = max. 2785 mm

projector dim. max. 450x650x200 mm

max.190

690 / 610 / 550 / 490 / 455

LL 22x12.5

728 / 528

dim. X= projector height + min. 50 mm

dim. in mm

KINDERMANN ceiling lift Compact 80 / 120

- Lifting range up to 120 cm
- Max. projector weight 20 kg
- Installation height > 120 mm
- Sturdy construction
- Easy mounting

Quality made in Germany
by KINDERMANN

The KINDERMANN ceiling lift Compact is extremely flat. For projectors of not more than 6.5 cm height a false ceiling of 120 mm is sufficient.

The lift Compact is easy to mount and its mounting frame fits into nearly any false ceiling with standardized ceiling elements of 60 x 60 cm.

The position of the projector can be easily fixed via a separate programming unit (optional accessory), even if the ceiling lift is in upward position.
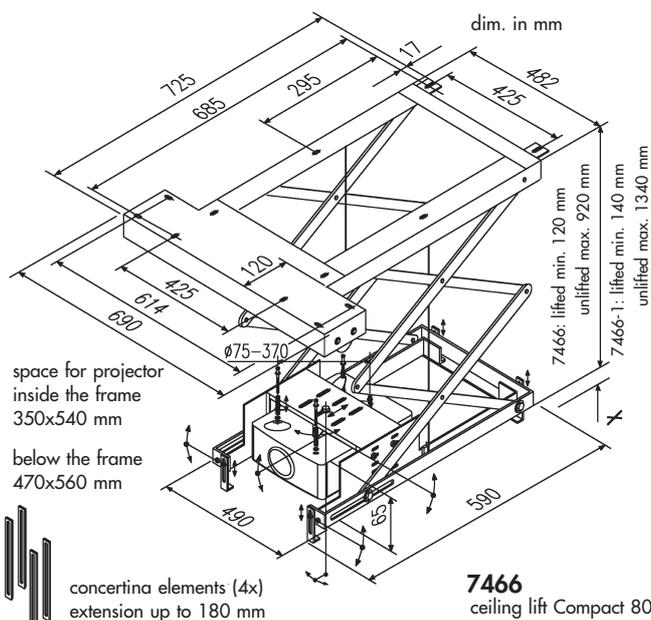
The safety switch stops the lift on its way down when hitting an obstacle.

Pre-installed power supply, spiral cable guide for safe power and data supply, 4-pin connection control for mains and control, up and down.

KINDERMANN ceiling lift Compact 80	No. 7466
KINDERMANN ceiling lift Compact 120	No. 7466-1

Certified safety:
- Durability proved by long-term testing
- Endurance test with double load
- Free of electro-magnetic interferences
- Corrosion resistant

Technical data

Model	Compact 80	Compact 120
Installation	> 120 mm	> 140 mm
	if projector height </= 65 mm	
Projector mounting	universal projector mount	
Lifting range	up to 80 cm	up to 120 cm
Weight of lift	24 kg	25 kg
Projector size	max. 47 x 56 cm	
Projector weight	max. 20 kg	
Voltage	230 V, 50 Hz	
Mounting frame	680 x 700 mm	
Cutout of ceiling	600 x 500 mm	
Ceiling plate	not supplied, see accessories	
Colour	metallic silver grey (RAL 9006)	

dim. in mm

725
685
295
17
482
425

120
425
614
690
ø75–370

7466: lifted min. 120 mm
unlifted max. 920 mm

7466-1: lifted min. 140 mm
unlifted max. 1340 mm

space for projector
inside the frame
350x540 mm

below the frame
470x560 mm

490
65
590

concertina elements (4x)
extension up to 180 mm

7466
ceiling lift Compact 80

7466-1
ceiling lift Compact 120

projector weight max. 20 kg
required ceiling cutout min. 600x500 mm
X = 0 to 90 mm (up to 270 mm with concertina elements)
required cable length inside the lift 7466 ca. 2 m/7466-1 ca. 3 m)

Accessories for ceiling lift Compact 80 / Compact 120

Ceiling plate **Standard version** (550x650 mm) for covering the ceiling cutout (500 x 600 mm) colour: matt white (RAL 9003)	No. 7466-11	
Ceiling plate **Version with T profile** for invisible mounting integration of the ceiling cutout (500x600 mm) in the lift, colour: matt white (RAL 9003)	No 7466-10	
Programming unit Standard with 4-pin connection cable, for programming the stop positions, reusable	No. 7466-100	
Electronic programming unit for more convenience, with 4-pin connection cable, for programming the stop positions, reusable	No. 7466-101	
Safety switch Mechanical switch 230VAC, 10A, for cutting off the projector from power when ceiling lift is lifted, stop position adjustable.	No. 7466-15	
Metal panelling for visible mounting on the ceiling, 4 parts, height 17 cm, white colour (RAL 9003)	No. 7466-20	

Accessories for KINDERMANN ceiling lifts

Radio remote control with wireless switch and mobile sender, up to 30 m distance	No. 5944-0	
Key switch	No. 5944-1	
IR remote control 1-channel with wireless switch and mobile sender	No. 5699-13	
Up/down switch 10A/250 VAC, 2-pin, on wall mounting	No. 5944-2	

Subject to technical alterations, as well as to changes of the design and the colour

Mounts for plasma and TFT/LCD displays
Sturdy high-quality mounts for safe mounting of displays

Universal mounts for displays up to 50":

- Professional mounting of large displays
- Easy configuration and installation
- For mounting displays in portrait or landscape format
- Compatible with many displays
- Also suitable for integration in AV furniture
- Optional tilting plate

VESA standard	Size	Weight
FDMI D	12"–22.9"	max. 14 kg
FDMI E	23"–30.9"	max. 22,7 kg
FDMI F	31"–90"	max. 113,6 kg

All mounts are compatible with VESA FDMI Standard, unless otherwise stated.

KINDERMANN ceiling mounts for displays
consisting of ceiling plate, aluminium support tube and display mount. Mounts can be individually designed with the following parts:

Ceiling plates

Ceiling plate Standard, anthracite	No. 7510
Ceiling plate Standard, silver	No. 7510-1

- cable channel inside

anthr. / silver | max. 50 kg

Ceiling plate Heavy	No. 7510-10

- cable channel inside

anthracite | max. 100 kg

Aluminium support tubes
Outer diameter 51 mm, inner diameter 45 mm, can be shortened

Length 100 cm	No. 7510-100
Length 150 cm	No. 7510-150
Length 200 cm	No. 7510-200
Length 250 cm	No. 7510-250
Length 500 cm	No. 7510-500

Accessories

Cover	No. 7510-61

Tube trim cover for the outlet of the alumninium support tube at the ceiling.

Display mounts

Display mounts VESA 75 x 75 / 100 x 100	No. 7510-50

tiltable ± 45°

anthracite | 12" - 23" | max. 14 kg

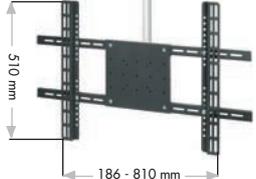| Display mount VESA 100 x 100 / 100 x 200 / 200 x 200	No. 7510-51

tiltable ± 45°

anthracite | 12" - 31" | max. 24 kg

Display mount Universal	No. 7510-52
Optional joint for tilting the mount No. 7510-52 up to 6°	No. 7510-60

510 mm

186 - 810 mm

anthracite | 32" - 50" | max. 55 kg

Display mount Individual	No. 7510-53

tiltable up to 12°

- Please indicate brand and model when ordering

anthracite | 51" - 63" | max. 65 kg

KINDERMANN wall mounts for displays

Wall mount VESA 75 / 100 / 100 x 200			No. 7511

silver	12" – 31"	max. 14 kg
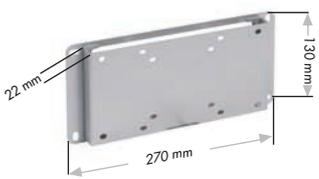
Wall mount VESA 75 / 100 / 100 x 200 / 200			No. 7511-1
Wall mount identical with No. 7511-1, but tiltable up to 6°			No. 7511-2

silber	12" – 46"	max. 40 kg

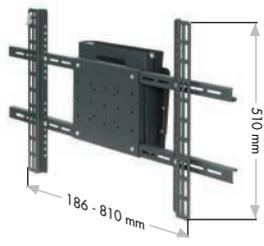| Wall mount VESA with rotating arm			No. 7511-3
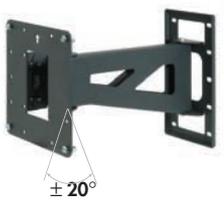
- distance to the wall max. 40 cm
- please indicate brand and model when ordering

anthracite	max. 20 kg

± 20°

Wall mount Universal			No. 7511-10
Wall mount Universal, tiltable up to 6°			No. 7511-11

anthracite	32" – 50"	max. 55 kg

Wall mount Individual			No. 7511-12
Wall mount Inidividual, tiltable up to 12°			No. 7511-13

- please indicate brand and model when ordering

anthracite	51" – 63"	max. 65 kg

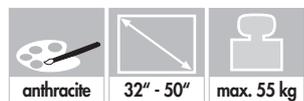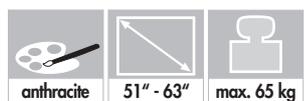| Wall mount Heavy with arm			No. 7511-14
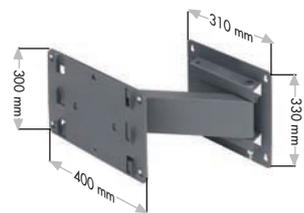
- distance to the wall max. 30 cm
- please indicate brand and model when ordering

anthracite	max. 42"	max. 40 kg

KINDERMANN display stands

Flat screen stand Rolling		No. 7512-1
Flat screen stand Feet		No. 7512-2

- height of display centre ca. 150 cm
- with universal mount for displays up to 50"
- for portrait or landscape position

anthr. / alu	32" – 50"

Flat screen stand Adjust		No. 7512-3

- with castors
- height-adjustable 130-175 cm (display centre)
- with mount for displays up to 50"
- please indicate brand and model when ordering

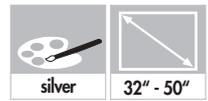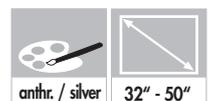| anthr. / alu.	max. 50"

Flat screen stand Executive		No. 7512-4

- height of display centre ca. 150 cm
- with universal mount for displays up to 50"
- incl. deposit tray for notebooks (ca. 70 x 40 cm)
- size 91 x 65 cm

silver	32" – 50"

Flat screen stand Design		No. 7512-5

- with castors
- height of cisplay centre ca. 150 cm
- with mount for displays up to 50"
- incl. deposit tray for notebooks (50.8 x 31.7 cm)

anthr. / silver	32" – 50"

Optional deposit tray for 7512-1/-2/-3		No. 7512-10

size 60x45 cm, material: beech

KINDERMANN PIXIE Pro
Conference controls for:

- Projectors, displays, etc.
- Electronic devices, e.g. DVD player
- Volume control, e.g. amplifier
- Room technology, e.g. screens, ceiling lifts, shades

PIXIE Pro conference controls

The PIXIE Pro control systems are intelligent gadgets for conference, lecture rooms and classrooms where data/video projectors, displays, volume controls or room technology are permanently installed and often used by different persons.

Operating all the devices with their various functions is really easy. The user can control everything from a centre point by pressing the buttons of a single unit and doesn't need several remote controls. Thus operation errors can be avoided.

The PIXIE Pro System Control and PIXIE Pro NRC can be freely configured to control a data/video projector, a display, a DVD player, Audio systems, screens, ceiling lifts, room lights and shades.

The control functions either via RS 232, relais or infrared commands.

The PIXIE Pro conference controls are modular systems and can be adapted to the individual requirements, resp. expanded.

PIXIE Pro System Control

PIXIE Pro Network Room Control

PIXIE Pro NRC Controls Pucks

KINDERMANN PIXIE Pro System Control

Power on/off
e.g. as general control
of all connected devices

Volume control
projector or amplifier
(blind cover possible)

Light sensor controls
background illumination
depending on the room
light

Screen, lift, up/down
(blind cover optional)

Special functions
e.g. mute, freeze, format,
PIP etc.

Operating buttons for disc
drive for playing DVD, VCR
(blind cover possible)

Select source
1–8 sources
(blind cover optional)

Navigation in the
on-screen menu
DVD player, projector
(blind cover optional)

Password protection
optional blocking of
unauthorized use

AUX functions up/down
(blind cover optional)

Pixie Pro System Control as stand alone unit

The PIXIE Pro can learn the commands of the original remote controls of the various sources and safely transmit the IR signals via the installed wiring to the units.

It can also control electrical screens or ceiling lifts via the IR remote.

Even more complex tasks can be carried out after programming the unit correspondingly.

The operating panel can be individually adapted and labelled to the user's requirements.

The KINDERMANN PIXIE Pro System Control can be used as a desktop unit or for wall installation. It can also be inserted in a cable channel.

Stainless steel front cover	No. 5699-10

Optional cover of elegant design. For covering the PIXIE Pro electronic part, i.e. the unit without plastic casing, when installed in a desk or a wall.

Cable IR transmitter	No. 5698-10

Additional IR transmitter

Extension cord	No. 5698-11

For transmitting the IR signal and for the power supply

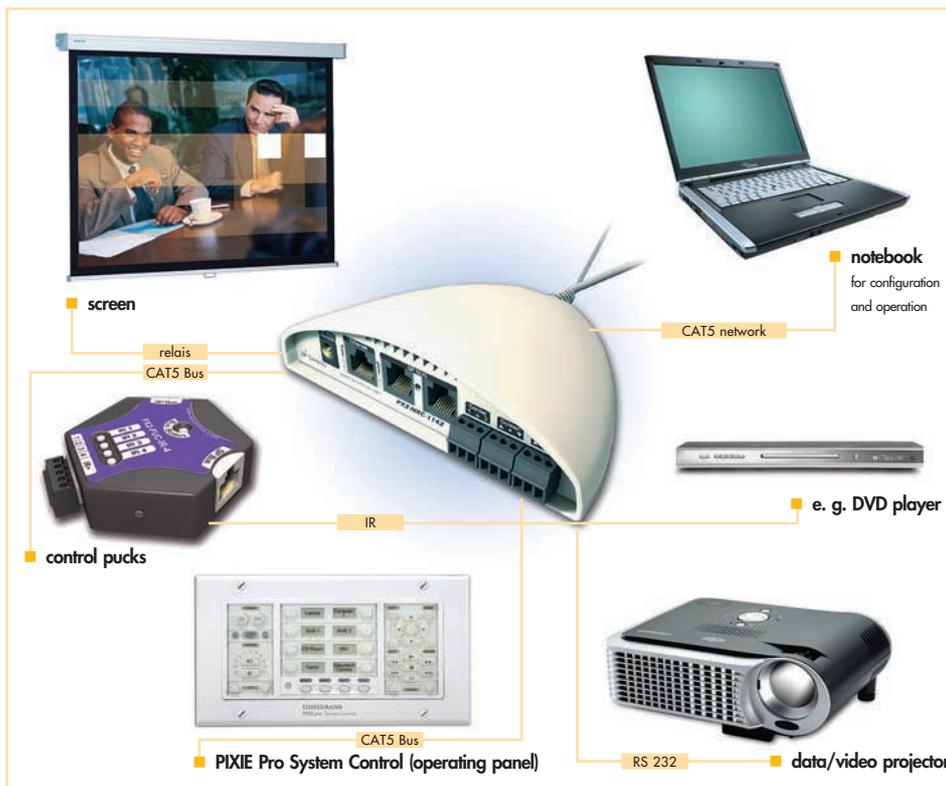| KINDERMANN PIXIE Pro System Control		No. 5699
Dim. Board: **Desktop casing:**	181 mm x 107 mm x 30 mm 210 mm x 115 mm x 35 mm	
Power supply:	Stabilized unit 100–240 VAC / 6 VDC, 0.8 A	
Output:	IR transmitter module (1 module supplied)	
Recommended connection cable between IR transmitter/PIXIE Pro	3-pin, 0.25 – 0.5 mm², protected (No. 5698-11) optional	
Possible installations:	Desk mounting, wall mounting or mounting in cable channel. Supplied with desktop casing	

KINDERMANN PIXIE Pro NRC
Network Room Control

- Operation via web browser or operating panel
- Complete media control with RS 232, IR transmitter, relais outputs, sensor inputs
- Can be extended via system bus (IR, RS 232, relais)
- PIXIE pro System Control can be used as operating panel

Examples of application

The PIXIE Pro Network Room Control controls a projector, a screen, a DVD player via web browser and uses the PIXIE Pro System Control as operating panel.

- screen
- relais
- CAT5 Bus
- control pucks
- IR
- CAT5 network
- notebook
  for configuration and operation
- e. g. DVD player
- CAT5 Bus
- PIXIE Pro System Control (operating panel)
- RS 232
- data/video projector

PIXIE Pro NRC

The PIXIE Pro NRC is a comfortable control system with network connectivity, which can be configured and controlled easily via Internet browser.

The NRC system features a RS 232 interface and an IR transmitter and can control a data/video projector or a display.

Via four relais you can also control e.g. an electrical ceiling lift or screen. Two sensor inputs help to protect the projector and have an anti-theft function.

Even several NRC systems connected to a network can be installed in several rooms and then controlled from a centre point.

Via additional pucks, which can be individually connected with the system bus (Cat5 cable) in series, other external devices (such as DVD player, amplifier, room light, splitter and selector) can be controlled via RS 232 interface, IR transmitter or relais.

Connected to the system bus the PIXIE Pro System Control becomes an operating panel.

KINDERMANN PIXIE Pro NRC	No. 5670
Dim.:	38 x 105 x 38 mm
Power supply:	100–240VAC /12 VDC, 1.25A
Outputs:	Serial interface 9-pin SubD with 40cm cable (incl. adapter 9 : 25-pin) IR transmitter with 40 cm cable 4 relais 50 V max. /0.5 A System bus (2 x RJ 45) Network (RJ45)
Inputs:	2 power sensor Connected to the system bus the PIXIE Pro System Control becomes an operating panel.

Accessories for additional control options to extend the system
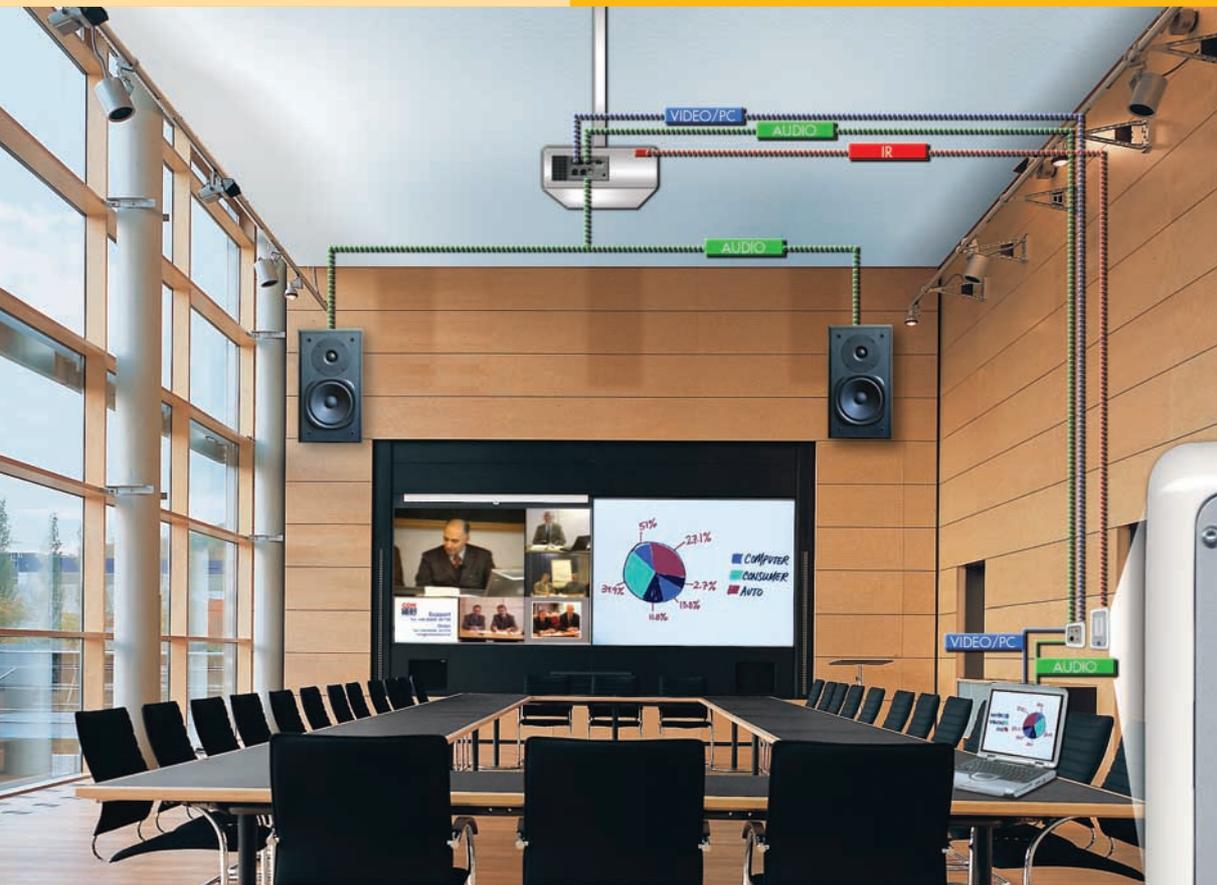
NRC RS232/IR Control Puck	No. 5670-10
Dim: 60 x 60 x 20 mm For extending the system by 1 RS232 and 1 IR transmitter	

NRC IR-4 Control Puck	No. 5670-20
Dim: 60 x 60 x 20 mm For extending the system by 4 IR transmitters	

NRC Relais Control Puck	No. 5670-30
Dim: 60 x 60 x 20 mm For extending the system by 4 relais 50 V max. / 0.5 A	

Exchangeable modules for an individual configuration

Ideal for
- **Conference rooms, e.g. in hotels**
- **Lecture rooms**
- **Schools**

KINDERMANN PIXIE Display Control
The control system for lecturers, teachers and managers

- Easy operation of media technology due to focus on the main functions
- Hassle-free presentation – no embarrassing situations because of lost remote controls or empty batteries
- High reliability due to cable-based transmission of IR commands
- Easy to install due to self-learning of the IR commands
- No programming necessary

The KINDERMANN PIXIE Display Control is an elegant control system for data/video projectors, plasma or LCD displays.

Even an untrained user can easily control any connected device with PIXIE.

Especially in schools or conference rooms, where various persons have to get along with technical devices day by day, PIXIE makes it much easier to operate projectors and other equipment.

Operation errors or the tedious search for the proper remote control are a thing of the past.

PIXIE is installed in a double socket. To switch on the connected equipment just press the button.

Moreover, the source can be changed and the volume adjusted.

A cable-based infrared sender transmits the PIXIE commands to the projector.

KINDERMANN PIXIE Display Control	No. 5698
Supplied with:	PIXIE control panel, insert for Busch-Jaeger fittings, Reflex SI, Mounting frame 2-fold, white, 1 IR transmitter, power supply
Power supply:	6 VDC, 300 mA
Output:	IR cable transmitter (ca. 50 cm), socket for power supply and clamp for connecting cable (up to 100 m)
Required cables for PIXIE:	3-pin cable, 0.25–0.5 mm², protected e.g. No. 5698-11(not included)

Key switch	No. 5698-12
Exchangeable cover with key switch	

Key switch, identical key code	No. 5698-13
Exchangeable cover with key switch	

Cable IR transmitter	No. 5698-10
Additional IR sender	

Extension cable	No. 5698-11
For transmitting the IR signal and for the power supply.	
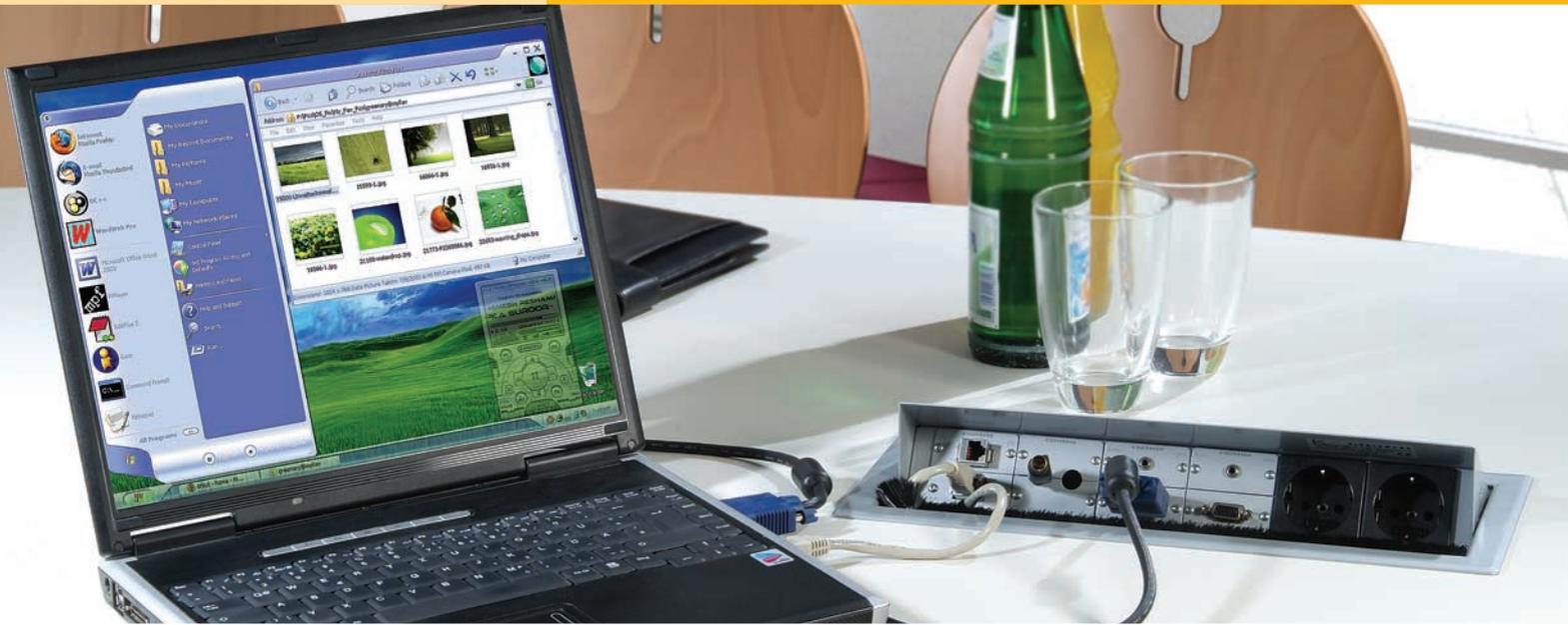
KINDERMANN MultiMedia socket systems

The modular MultiMedia socket system allows you to integrate computer, Video, Audio, control or network connections into standard electrical fittings (50/54/55 m sockets and plugs), into desktop casings, underfloor units and patch panels for 19" racks.

The modular system is inexpensive and can be expanded any time by adding additional plugs and sockets.

The modules are available with soldering connections or ready with cable and plug (f/f).

Module covers sized:

Suitable for:

54 x 54 mm (7441-xxx)

54 mm / 54 mm

Socket system

19" rack

+

50 x 50 mm (7444-xxx)

50 mm / 50 mm

Socket system

+

Desktop casings

+

Underfloor units

+

19" rack

The modules are compatible with:

The modules are available as a soldering version or a plug version.

■ German standard sockets and covers e. g. by Berker, Busch-Jaeger, Gira, Jung, Merten, Peha, Siemens, Vedder sized 55 x 55 mm, 50 x 50 mm and 54 x 54 mm

■ This standard is also common in many European countries

Other country versions available on demand!

Soldering version

Plug version

Modules 50 x 50 mm or 54 x 54 /55 x 55 mm
Aluminium coated

Computer / Video

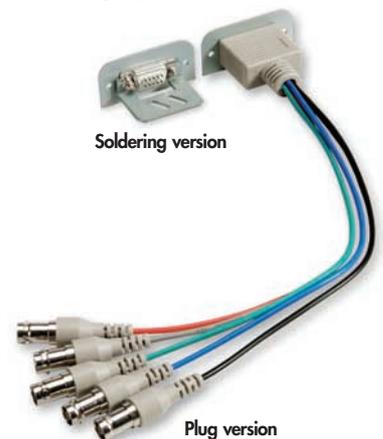| Model	Connection	No.
Blind cover		No. 7441-400 No. 7444-400
Mains switch (duplex inset)		No. 7444-200
VGA (HD 15)	Soldering Plug Soldering Plug	No. 7441-401 No. 7441-501 No. 7444-401 No. 7444-501
DVI-I (24 + 5 pin)	Soldering Plug Soldering Plug	No. 7441-402 No. 7441-502 No. 7444-402 No. 7444-502
Video (Cinch)	Soldering Plug Soldering Plug Plug to 1xBNC	No. 7441-403 No. 7441-503 No. 7444-403 No. 7444-503 No. 7441-535
S-Video (4-pin Mini DIN)	Soldering Plug Soldering Plug Plug to 2xBNC	No. 7441-404 No. 7441-504 No. 7444-404 No. 7444-504 No. 7441-536
Video / S-Video	Soldering Plug Soldering Plug	No. 7441-405 No. 7441-505 No. 7444-405 No. 7444-505
Component-Video (3 x Cinch)	Soldering Plug	No. 7441-406 No. 7441-506
VGA to BNC5	Plug Plug	No. 7441-507 No. 7444-507
Scart duplex inset	Soldering Plug supplied with special mounting frame	No. 7441-408 No. 7441-508
VGA-Active duplex inset	Plug Plug with integrated VGA-amplifier 1:1, 400 MHz, Required depth: 40 mm, external power supply 230 V/12 VDC	No. 7441-509 No. 7444-509

Computer / Video

Model	Connection	No.
BNC - single	Gender changer	No. 7441-537
BNC - duplex	Gender changer	No. 7441-538
BNC - 5 connections	Gender changer	No. 7441-539
HDMI	Plug Plug	No. 7441-540 No. 7444-540
F plug, duplex, for satellite receiver	Gender changer	No. 7441-541

Audio

Model	Connection	No.
Audio L/R (Cinch)	Soldering Plug Soldering Plug	No. 7441-410 No. 7441-510 No. 7444-410 No. 7444-510
Audio jack (3.5 mm stereo)	Soldering Plug Soldering Plug	No. 7441-411 No. 7441-511 No. 7444-411 No. 7444-511
XLR 3-pin duplex inset	Soldering (XLR f) Soldering (XLR f) Soldering (XLR m) Soldering (XLR m)	No. 7441-412 No. 7444-412 No. 7441-416 No. 7444-416
Speakon 4-pin duplex inset	Soldering Soldering	No. 7441-413 No. 7444-413
Loudspeaker	Clamps suitable for loudspeaker cable or jack plug up to 4mm^2	No. 7441-414
Toslink Audio	Gender changer	No. 7441-515

Subject to technical alterations, as well as to changes of the design and the colour

Data

Model	Connection	No.
Serial RS 232	Soldering	No. 7441-420
	Plug	No. 7441-520
	Soldering	No. 7444-420
	Plug	No. 7444-520
PS/2	Soldering	No. 7441-421
	Plug	No. 7441-521
	Plug	No. 7444-521
USB (2.0 comp.)	Plug (A-f/A-f)	No. 7441-522
	Plug (A-f/A-f)	No. 7444-522
	Plug (B-f/A-f)	No. 7441-525
	Plug (B-f/A-f)	No. 7444-525
CAT 5 (RJ45)	Gender changer (1:1)	No. 7441-523
	Gender changer (1:1)	No. 7444-523
CAT 6 (RJ45)	Crimp	No. 7441-423
	Crimp	No. 7444-423
	socket by "Reichle + DeMassari"	
USB - CAT 5	Plug with integrated USB extender (5772-1) for USB 1.1, length of CAT 5 cable max. 45 m	No. 7441-524
Duplex cover	with opening for cable diameter 1: 8 mm diameter 2: 12 mm	No. 7444-440
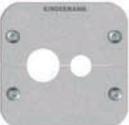
Mixed sources

Model	Connection	No.
Video, Audio L/R	Soldering	No. 7441-430
	Plug	No. 7441-530
	Soldering	No. 7444-430
	Plug	No. 7444-530
Audio L/R, S-Video	Soldering	No. 7441-431
	Plug	No. 7441-531
	Soldering	No. 7444-431
	Plug	No. 7444-531
Audio jack, USB	Soldering	No. 7441-433
	Plug	No. 7441-533
Audio jack, CAT 5	Soldering	No. 7441-434
	Plug/	No. 7441-534
	Plug	

The socket system for wall installation

The system is compatible with standard sockets and covers sized 55 x 55 mm, 50 x 50 mm, and 54 x 54 mm, and can be mounted either on the wall, level with the wall or in a cable channel.

On-wall socket frame	Mounting frame	Socket cover	Adapter frame for size 55x55 mm	Insets 54x54 mm or 50x50 mm

Mounting kits

Model	Connection	No.
Mounting frame	with adapter frame for size 55x55 mm	No. 7442-1
Cover/mounting frame	single cover, Busch Jaeger Reflex SI, white	No. 7441-1
Cover/mounting frame	doplex cover, Busch Jaeger Reflex SI, white	No. 7441-2
Surface casing	Busch Jaeger Reflex SI, white, incl. pre-cut cable opening	No. 7441-3
Duplex surface casing	Busch Jaeger Reflex SI, white, incl. pre-cut cable opening	No. 7441-4
In-wall casing	single depth: 47 mm	No. 7441-5
In-wall casing	duplex depth: 47 mm	No. 7441-6

Desktop connections

With the KINDERMANN desktop modules messing around with the wiring on the conference table is a thing of the past. The lid is opened only when required. After fixing the wiring the lid can be closed again and the connections are no longer visible, the cable outlet is covered by an integrated brush. The housing can be installed level to the desktop. In addition to pre-configured desktop modules individual combinations of mains connections, AV and data interfaces can be realized in the desktop casing.

Technical data:

- **Desktop casing for four insets:** outer dim. 275 x 166 mm, cutout for installation: 145 x 250 mm, height of casing: 75 mm
- **Desktop casing for six insets:** outer dim. 377 x 166 mm, cutout for installation: 145 x 350 mm, height of casing: 75 mm
- **For desktops of 20 mm thickness and more**
- **Mains connection with 3-pin Wieland plug GST 18** (supplied with GST 18 adapter)

Available versions:

- **Coated, RAL 9006* or**

- **Stainless steel (polished)***

The desktop modules are also available with the socket system used in your country.
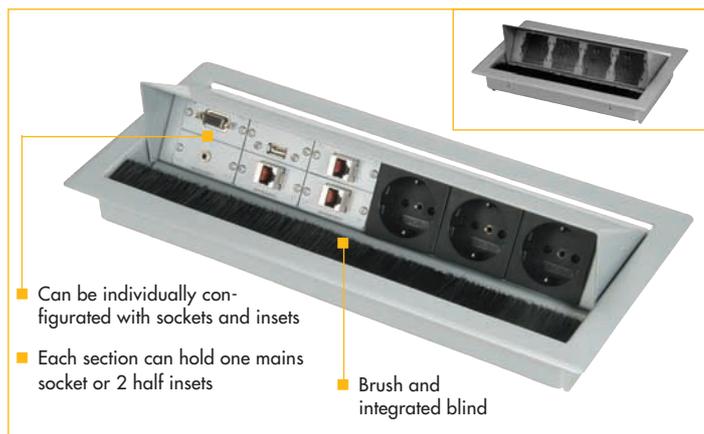Ask for details!

Examples:

Italy

France

Great Britain

Den-mark

Features:

- Can be individually con-figurated with sockets and insets
- Each section can hold one mains socket or 2 half insets
- Brush and integrated blind

Desktop modules

open	closed	connections with cable and plug

Model	Connection	No.
Desktop casing with 2 insets	pre-mounted with 1x mains, 1x VGA, 1x Audio (jack), 1x Cat 5	No. 7444-3* No. 7444-5*
Desktop casing with 4 insets	pre-mounted with 2x mains, 1x VGA, 1x Audio (jack), 2x Cat 5	No. 7444-1* No. 7444-6*
Desktop casing with 6 insets	pre-mounted with 3x mains, 1x VGA, 1x Audio (jack), 1x USB, 3x Cat 5	No. 7444-2* No. 7444-7*
Desktop casing for 4 insets	empty	No. 7444-10* No. 7444-50*
Desktop casing for 4 insets	empty 1 x mains	No. 7444-11* No. 7444-51*
Desktop casing for 4 insets	empty 2 x mains	No. 7444-12* No. 7444-52*
Desktop casing for 4 insets	empty 3 x mains	No. 7444-13*
Desktop casing with 4 insets	4 x mains	No. 7444-14*
Desktop casing for 6 insets	empty	No. 7444-20*
Desktop casing for 6 insets	empty 1 x mains	No. 7444-21*
Desktop casing for 6 insets	empty 2 x mains	No. 7444-22* No. 7444-62*
Desktop casing for 6 insets	empty 3 x mains	No. 7444-23* No. 7444-63*
Desktop casing for 6 insets	empty 4 x mains	No. 7444-24* No. 7444-64*
Desktop casing with 6 insets	6 x mains	No. 7444-26*

Connecting cables

Model	Length	No.
Connecting cable mains Schuko (m) / Wieland GST 18 (f)	1 m 2 m 3 m 5 m 8 m	No. 7444-301 No. 7444-302 No. 7444-303 No. 7444-305 No. 7444-308
Wieland extension f/m GST 18	1 m 2 m 3 m	No. 7444-321 No. 7444-322 No. 7444-323
Wieland distributor with clamp	1 input (m), 3 outputs (f)	No. 7444-340

Modules for underfloor installation

- For Ackermann underfloor housings
- The module holders replace the casings GB2 and GB 3
- Individual combination of insets

Model	No.
Module holder GB2 with space for 4 half insets No. 7444-xxx	**No. 7475-2**
Module holder GB3 with space for 6 half insets No. 7444-xxx	**No. 7475-3**

Modules for 19" racks

- **Available in 2 versions:** Patch panel with mains switch Patch panel for insets only
- Integration of wiring in 19 racks
- Individual combination of insets

Supplied without insets

Model	No.
19" patch panel for insets 7441-xxx (54x54 mm), with space for 6 double insets or 12 half insets, 2 „size 2U"	**No. 7446-1**
19" patch panel with 2 sockets 230V, mains switch and rear Schuko connection for connecting socket rails, with additional space for 3 double insets or 6 half insets 7444-xxx (50x50 mm), 2 „size 2U"	**No. 7446-10**

Installation kits for underfloor housings

Installation kits for existing Ackermann casings

Supplied with:

- Module with socket and soldering connection or f/f with ca. 20-30 cm cable and plug
- Cover plate for GB2 / GB 3
- Cable protection

Model	No.
Ackermann casing GB 2	**No. 5596**
Ackermann casing GB 3	**No. 5596-1**

Modules for underfloor housings

Model	Connection	No.
VGA / 3.5 mm jack Blind inset ø 6.3 mm / Sub-D / f	Soldering Plug	No. 5840-2 No. 5840-3
VGA / 3.5 mm jack / CAT 5 Blind inset ø 6.3 mm	Soldering Plug	No. 5590-2 No. 5590-3
VGA/S-Video/Video (Cinch) Blind inset for Sub-D / f	Soldering Plug	No. 5574-2 No. 5574-3
VGA / 3.5 mm jack USB to CAT 5 (USB 1.1) (max. length of CAT 5 cable 45 m)	Plug	No. 5586-3
VGA / 3.5 mm jack Video/Audio (Stereo) Cinch	Soldering Plug	No. 5567-2 No. 5567-3
VGA / S-Video / Video (Cinch) Audio (Stereo Cinch)	Soldering Plug	No. 5568-2 No. 5568-3
S-Video / Video (Cinch) 2 x Audio (Stereo Cinch)	Soldering Plug	No. 5841-2 No. 5841-3
XLR 3pin	Soldering	No. 5566-2

Subject to technical alterations, as well as to changes of the design and the colour

VGA signal amplifers / splitters

VGA Booster 1 : 1 — No. 5778-2

Signal amplifier up to a distance of 50 m between booster and projector (depending on resolution)
- 1 input / 1 output (HD15 m / f)
- Frequency 250 MHz
- Supports 1920x1440 pixels @ 60 Hz
- Plastic housing 97x56x26 mm
- Incl. power supply

Monitor splitter USBpower VGA 1 : 2 — No. 5778-6

- 1 input / 2 outputs (HD15 m/f)
- USB connections type A / m, type A / f
- Frequency 450 MHz
- Supports 2048x1536 pixels
- Plastic housing 70x72x25 mm
- Power supply via USB (USB-powered) DC 5V
- Connection cable VGA 15 cm

Monitor splitter Basic VGA 1 : 2 — No. 5778-10

- 1 input/ 2 outputs (HD15 m / f)
- Frequency 250 MHz
- Supports 1920x1440 pixels @ 60 Hz
- Supports DDC, DDC2, DDC2B at output 1
- Metal housing 130x75x42 mm
- Power supply DC 9V, 180mA
- Supplied with connection cable VGA 1.8 m (m / f)

Monitor splitter Basic VGA 1 : 4 — No. 6298-2

Similar to 5778-10 but with
- 1 input / 4 outputs (HD15 m / f)
- Power supply DC 9V, 220mA
- Supplied with connection cable VGA 1.8 m (m / f)

Monitor splitter Pro VGA 1 : 2 — No. 7480-1

- 1 input / 2 outputs (HD15 all f)
- Frequency 400 MHz (3 dB)
- Supports HDTV
- ID-Bit control
- Metal housing 120x75x25 mm
- Power supply 12 V DC, 95 mA
- Incl. fixing material

Monitor splitter Pro VGA 1 : 4 — No. 7480-2

Similar to 7480-1 but with
- 1 input / 4 outputs (HD15 all f)

VGA via CAT5 cable

VGA extender — No. 7488

- VGA transmission via CAT5 cable up to 100 m
- Fine adjustment of image quality
- Suitable for protected CAT5 and CAT6 cables
- Consisting of sender and receiver
- Connection cable VGA, ca. 15 cm
- **Sender:**
  1 input (HD15 m) / 1 loop output (HD15 f) and RJ45 (f)
- **Receiver:**
  1 input (RJ45 f) / 1 output /HD15 m)
  Size of casing (sender and receiver) each 64x29x24 mm
  Power supply: 9 V DC - 30mA

Image quality in relation to distance (at 60 Hz frequency)

Resolution	20 m	35 m	50 m	65 m	80 m	100 m
640 x 480	++	++	++	++	++	++
800 x 600	++	++	++	++	++	+
1024 x 768	++	++	++	++	+	+
1280 x 1024	++	++	++	+	+	−
1600 x 1200	++	++	+	+	−	−

DVI signal amplifiers/splitters

DVI-D repeater Pro 1:1 — No. 5778-4

For DVI-D signals, to be connected with the end of the cable (max. 10 m), extends the DVI connection up to 10 m (depending on resolution).
- 1 input / 1 output (f)
- Frequency 1.65 Gbit/s (Single Link)
- can be further extended
- Metal casing 60x65x30 mm
- Power supply 12 V DC or 5V (400 mA) via graphic card

DVI splitter Basic 1 : 2 — No. 5778-3

- 1 input / 2 outputs (f)
- Supports 1600x1200 pixels @ 60 Hz
- Max. cable length between splitter and projector 10 m
- Metal casing 200x75x42 mm
- Incl. power supply

DVI switcher

DVI Share 2 : 1 — No. 5816-6

- 2 inputs / 1 output (f)
- 2 select buttons
- 4 status LEDs
- Supports 1280x1024 pixels and DDC2
- Hot Plug compatibility
- Metal casing 153x75x42 mm
- Power supply DC 9V, 300 mA

HDMI repeater

HDMI repeater Basic 1 : 1 — No. 5778-5

For HDMI signals, to be connected with the end of the cable (max. 10 m), extends the HDMI connection up to 20 m.
- 1 input / 1 output (f / f)
- Supports up to HDTV 1080p (1920x1080 pixels)
- HDCP compatibility
- can be further extended
- Metal casing 49x49x20 mm
- Power supply DC 5V

VGA switchers

All selectors offered below transfer the VGA signal from 2 up to 8 connected computers to a monitor or projector.

VGA share Basic 2 : 1	No. 5816-11

- 2 inputs / 1 output (all HD15 f)
- 2 select buttons
- Auto skip, for skipping non-active inputs
- 4 status LEDs
- Frequency 250 MHz
- Supports 1920x1440 pixels and DDC1, DDC2, DDC2B, DDC2B+, DDC2AB
- Metal casing 128x75x45 mm
- Power supply DC 9V, 300mA

VGA share Basic 4 : 1	No. 5816-12

similar to 5816-11 but with
- 4 inputs / 1 output (all HD15 f)
- 4 select buttons
- 8 status LEDs

VGA share Basic 8 : 1	No. 5816-3

- 8 inputs (HD15 m) / 1 output (HD 15 f)
- IR remote control for selection of sources
- Buttons on the unit: up/down for successive selection and blank
- 16 status LEDs
- Supports 2048x1536 pixels @ 60 Hz and DDC, DDC2, DDC2B
- Plastic casing 170x190x45 mm
- Power supply AC9V, 4.5 W and 1.2 m VGA cable (m / f)

VGA Audio Share Pro 2 : 1 - automatic	No. 5816-4

Switches automatically to second input in case of a loss of the original input signal.
- 2 VGA inputs / 2 outputs (HD15 f)
- 2 Audio inputs / 1 output (3.5 mm jack / f)
- Loop input = input 1
- ID-Bit control
- Frequency VGA 300 MHz, Audio 100 kHz
- Control: automatic or via contact switch
- Metal casing 120x75x25 mm
- Power supply 12 V DC, 50 mA

VGA Audio Share Pro 3 : 2	No. 5816-6

High-quality switcher for VGA and symmetric audio signals. Transforms 3 inputs into 2 identical outputs.
- 3 VGA inputs / 2 outputs (HD 15 f)
- 3 Stereo audio inputs / 2 outputs (5-pin clamp connection)
- Frequency VGA 450 MHz, Audio > 100 kHz
- Control: 3 select buttons, relais inputs
- Metal casing 220x180x45 mm
- Power supply 12 V DC, 146 mA
- Optional 19" rack adapter

VGA Matrix 2x2	No. 5816-5

The VGA Matrix connects 2 computers to 2 displays or projectors and also functions as signal amplifier.
Each output shows either input 1, input 2 or no signal

- 2 selectable VGA inputs / 2 outputs (all HD15 f)
- 2 select buttons
- 4 status LEDs
- Frequency 250 MHz
- Supports 1920x1440 pixels @ 60 Hz
- Metal casing 130x75x42 mm
- Power supply DC 7.5 V, 800 mA

Presentation switcher N	No. 7485-2
Presentation switcher RC	No. 7485-3

- The „central control unit" for the smaller or medium-sized conference rooms
- Combines 4 switchers in a 2HE 19" casing
- 4 : 1 switcher for VGA with Audio, Video with Audio, S-Video with Audio
- All Audio connections symmetric with clamps
- XLR microphone connection can be adapted to dynamic or condensor microphones
- Talk-over function for microphone and volume control for Audio source
- Integrated Audio amplifier 2 x 5 W RMS - for smaller conference rooms a separate amplifier is not necessary
- **Inputs:**
  4 VGA (HD15 f), 4 S-Video (4 pin-Mini-Din / f), 4 Video (BNC), 12 Audio (symmetric), 1 microphone (XLR)
- **Outputs:**
  1 VGA (HD 15 f), 1 S-Video (4 pin-Mini-Din / f), 1 Video (BNC), 3 Audio (symmetric), 1 Master Audio (symmetric)
  Parallel/additional VGA output via Cat5/Twisted Pair - for transmission of VGA signals via Cat5-UTP cable up to 100 m (optional receiver module required)
- **Operation:**
  Via buttons on unit, RS 232-/485-/network interface or IR remote control
- Control for Audio and microphone level
- Frequency 350 MHz (VGA), S-Video (385 MHz), Video / SDI (650 MHz)

Additional functions of presentation switcher RC:

- Integrated Room Controller for controlling the projector, other signal sources, screens, lifts or technical devices in the house e.g. light, shades etc.
- 2 bi-direct RS 232 interfaces
- 3 infrared (for each 2 diodes)
- 4 relais
- 1 Ethernet port
- Easy programming via Windows-based software resp. integrated IR learning module

CAT5-VGA receiver for 7485-2/-3	No. 7481-10

- 1 input / 1 output (1 x RJ 45 / f, HD15 / f)
- Frequency 15 MHz @ - 3 dB
- Control for level (gain) & EQ (Peaking)
- Metal casing 60 x 65 x 25 mm
- Power supply DC 12 V, 30mA

Splitters for video signals

AV splitter Pro 1 : 3 — No. 7481-1

Signal splitter for Composite Video and Stereo Audio

- 1 input / 3 outputs (3x3 Cinch / f)
- Frequency Video 430 MHz, Audio 100 kHz @ - 3dB
- Adjustable Audio level, Video level and cable EQ
- Metal casing 165x120x45 mm
- Power supply DC 12 V, 50 mA

S-Video Splitter Pro 1 : 2 — No. 7481-5

- 1 input / 2 outputs (4 pin MiniDin / f)
- Frequency 150 MHz @ - 3dB
- Adjustable Video level (separate for Y&C)
- Metal casing 60x65x25 mm
- Power supply DC 12 V, 30mA

Audio splitter Pro 1 : 2 — No. 7481-4

- 1 input / 2 outputs (3.5 mm jack / f)
- Frequency 100 kHz @ - 3dB
- Adjustable Audio level (separate for left & right)
- Metal casing 60x65x25 mm
- Power supply DC 12 V, 30mA

Splitters for video/audio signals

AV Share Basic 4 : 1 — No. 7481

Selector for Composite Video, S-Video and Stereo Audio as well as Video converter

- 4 inputs / 1 output (4 pin MiniDin, 3 x Cinch, all f)
- S-Video - > Composite Video converter
- Composite Video - > S-Video converter
- Plastic casing 190x115x50 mm

AV Share Basic 4 : 1 Remote — No. 7481-3

Video selector for RGB Video, S-Video, Composite Video, Stereo Audio, Digital Audio

- 1 input / 4 outputs
  (Scart RGB, 4pin Mini-Din, 3xCinch, Toslink, all f)
- Plastic casing 60x65x25 mm
- Power supply DC 9-12 V, 200 mA
- Supplied with IR remote control, S-Video cable, Scart cable, Cinch connection cable

TV Tuners / Progressive Scan Converters

TV Tuner PV500 — No. 7486

Converts a projector or a TFT display into a TV and Video in VGA signals (SVGA/XGA)

- Can be used as TV Tuner with video text, Progressive Scan Converter, Video Scaler, VGA/Video switcher
- Adaptive 2D filter for Y/C partition
- Philips SAA7118 Chip
- A2/NICAM Stereo Sound Decoder
- Inputs: aerial / cable), Composite Video (Cinch), S-Video (4 pin-Mini-Din), VGA (HD15 / f), 1 Stereo Cinch, 1 Stereo jack
- Outputs: VGA (HD 15 f), Stereo jack
- Output signal VGA, SVGA, XGA - 60/75 Hz
- Remote control and power supply

Accessories

IR Link — No. 5822-5

Extends the range of IR remote controls.
Extension cable for IR signals sent by remote controls, consisting of:

- IR receiver
- Connector block with power supply 12 V DC
- IR Emitter with 2 IR diodes
- Cable IR receiver -> Connector block ca. 2 m*
- Cable connector block -> IR Emitter ca. 3 m
- * Extension possible with 3pin cable 5698-11

ECOMAN Beamer — No. 7487

Separates the projector from the mains after ca. 5 minutes of operation in standby mode. The integrated IR receiver switches the projector back to standby when it gets an IR signal. If the signal is not meant for the projector, it will be separated again.

- Time controlled mains separation of projectors
  (after ca. 5 min. in standby mode)
- High voltage protection
- Max. power 460 W
- Power consumption < 1 W
- 230 V AC / 50 Hz
- Output Schuko plug

VGA cables

VGA cable HD15 (m / m)	
2 m	No. 7483-2
5 m	No. 7483-5
10 m	No. 7483-10
15 m	No. 7483-15
20 m*	No. 7483-20
25 m*	No. 7483-25
30 m*	No. 7483-30
40 m*	No. 7483-40

High-quality VGA cable, black with gilded contacts, double-protected, for best picture quality.
- Multi-coaxial cable with low resistance, double-protected
- Gilded contacts
- Blue plug with 2 integrated ferrit cores, according to PC-99 standard, UL-approved
- Full pin usage (without pin 9)
- * For optimum picture quality we recommend the use of a VGA amplifier (see page 34)

VGA cable HD15 (m / f), 2 m	No. 6326-2

- Similar to above VGA cable, but in m / f version

Gender Changer VGA (f / f)	No. 6418

- Changes m into f

VGA/BNC-5 cables

VGA/BNC-5 cable (m / m)	
2 m	No. 6328-1
5 m	No. 5751
10 m	No. 5752-1
15 m	No. 5753-1
20 m	No. 5754-1

- For projectors with BNC input, multi-protected, low resistance
- HD15 / m to 5x BNC / m
- Protected by ferrit core

DVI cables

DVI-D cable, 24+1 pin (m / m)	
2 m (DL)	No. 5809
5 m (DL)	No. 5809-2
10 m (DL)*	No. 5809-3
15 m (DL)*	No. 5809-4
20 m (SL)*	No. 5809-5

High-quality DVI-D cable, black with gilded contacts, double-protected, for best picture quality
- For digital transmission, DVI-D Standard Single Link (SL), Dual Link (DL)
- * We recommend the use of a DVI Repeater No. 5778-4.
  If using cables of more than 10 m, the function cannot be guaranteed.

DVI-I cable 24+5 pin (m / m)	
2 m	No. 5809-30
5 m	No. 5809-31
10 m*	No. 5809-32

Adapter DVI-I/VGA (m/f)	No. 5809-6

- DVI-I (12+5 pin) to HD15 (m / f)

DVI-A to VGA cable, 2 m (m / m)	No. 5809-7

- DVI-A (12+5pin to HD15 (m / m)

HDMI cables

HDMI cable, type A, 19pin (m / m)	
2 m	No. 5809-10
5 m	No. 5809-11
10 m*	No. 5809-12
15 m*	No. 5809-13
20 m*	No. 5809-14

- For digital transmission of image and Audio (m / m)
- Supports HDTV and HDCP
- * We recommend the use of a HDMI Repeater 5778-5.
  If using cables of more than 10 m, the function cannot be guaranteed.

HDMI to DVI adapter (f / m)	No. 5809-21
HDMI to DVI-D (m / m), 2 m	No. 5809-20

- DVI-I (24+1pin) to HDMI (m / m)

USB cables

USB cable (A-m / A-m)	
2 m	No. 5773-3
5 m	No. 5773-5

- USB 1.1 compatibility
- Grey

USB 2.0 cable (A-m / B-m)	
2 m	No. 5773-4
5 m	No. 5799
7 m	No. 5799-1

USB adapter (A-m / B-f)	No. 5577

- USB 1.1 compatibility
- Grey

USB 2.0 Active Hub (A-m / A-f)	No. 5771

- For cable connection > 5 m
- Active USB 2.0 Hub with 5 m cable
- Can be further extended (max. 3x)
- USB powered, power supply not necessary

USB 1.1 Extender	No. 5772-1

- Transmits USB signal via CAT 5 cable up to 45 m length
- USB 1.1 compatibility
- Sender A (m) + RJ45 (f) / receiver A (f) RJ45 (f)
- USB powered, power supply not necessary

RS 232/Serial cables

RS 232 cable (f / m)	
10 m	No. 5825
15 m	No. 5825-1
20 m	No. 5826

- 9pin SubD (f) to 9pin SubD (m)
- 1:1, protected

Cat5 Patch cables

Cat5E Patch cable (RJ45 m / m)	
3 m	No. 5772-10
5 m	No. 5772-9
10 m	No. 5772-11
15 m	No. 5772-12
20 m	No. 5772-13
25 m	No. 5772-14
30 m	No. 5772-15
50 m	No. 5772-16

- 1:1, SFTP, protected
- 4x2xAWG 26/7 PVC
- **Cat6/7 Patch cable on demand**

Compositive Video cables with and without sound

Composite Video cable (Cinch-m / Cinch-m)	
2 m	No. 5837-1
5 m	No. 5837-2
10 m	No. 5837
15 m	No. 5838-1
20 m	No. 5839-1
25 m	No. 5839-2
30 m	No. 5839-3

- Double protected
- Gilded plugs
- 75 Ohm, can be used for digital equipment
- **Video cable > 30 m length on demand**

AV cables (3 x Cinch-m / 3 x Cinch-m)	
2 m	No. 6415-1
5 m	No. 6415-2
10 m	No. 6415-3
15 m	No. 6414-1
20 m	No. 6416-1

- Double protected
- 1 connection for Video (75 Ohm)
- 2 connections for Audio
- Gilded plugs, colour codes
- 75 Ohm, can be used for digital equipment

S-Video cables

S-Video cable (4 pin MiniDIN m/ m)	
2 m	No. 7482
5 m	No. 7482-1
10 m	No. 5830
15 m	No. 5831
20 m	No. 5832-1
25 m	No. 5832-2
30 m	No. 5832-3

- Double-protected
- 2 coax connections (75 Ohm)
- Gilded plugs
- **S-Video cable > 30 m length on demand**

Video-/S-Video adapter

Video/S-Video adapter	No. 5853

- Converts signals in both directions, e.g. for connecting a VHS recorder to an S-Video input
- Cinch (f) to S-Video (f)

Scart Adapter

Scart-Cinch cable, 3 m	No. 5836-1
Scart-Cinch Adapter	No. 6288-1

Scart (m) to
- 1 x Video (Cinch)
- 1 x S-Video (4pin Mini DIN)
- 1 x Stereo Audio (2 x Cinch)

Component Video cables

Component Video cable (3 x Cinch m / m)	
2 m	No. 5569-5
5 m	No. 5569-2
10 m	No. 5569-3
15 m	No. 5569-4

- Double protected
- 3 coax connections (75 Ohm)
- Gilded plugs, colour codes (except 5569-5)

3 x Cinch to VGA (m / m) 2 m	No. 5569

- For projectors with Component Video input via VGA

Audio cables

Stereo Cinch (m / m)	
2 m	No. 5762-1
5 m	No. 5762
10 m	No. 5763
15 m	No. 5764
20 m	No. 5765

- Profi Cinch Audio cables for lenghts > 15 m
- Double protected
- 2 coax connections
- Gilded plugs, colour codes
- Cinch cable Stereo
- **> 20 m length on demand**

Stereo jack 3.5 mm (m / m)	
2 m	No. 5766-2
5 m	No. 5766
10 m	No. 5767-1
15 m	No. 5768
20 m	No. 5769

- Stereo jack cables for
- **> 20 m length on demand**

Adapter Cinch/jack (f / m)	No. 5854
Stereo Cinch to 3.5 mm jack (m / m)	No. 5854-1

Microphone cables

XLR 3-pin m / f	
1.5 m	No. 7489-0
2.5 m	No. 7489-1
5 m	No. 7489-2
10 m	No. 7489-3
20 m	No. 7489-4

- Professional microphone cables
- With Neutrik metal XLR plug connections
- Core diameter 0.22 mm^2

Loudspeaker cables

XLR 3 pin m / f	
2 x 2.5 mm^2 per meter	No. 7489-10

- Cable diameter 2.5 mm^2 each
- 2 cores, twisted, highly flexible, with plastic coating
- 140 x 0.15 mm, copper
- Overall diameter: ~ 7.8 mm
- Resistance: 8 Ohm/km

Loudspeaker cable Speakon 2 x 2.5 mm_ m / m 4pin	
2 m	No. 7489-20
5 m	No. 7489-21
10 m	No. 7489-22
20 m	No. 7489-23

- Professional loudspeaker cable with core 2.5 mm^2
- High-quality Speakon plug by Neutrik (4 pin)

For an effective autio-visual presentation in front of a bigger audience your projectors must be supported by an external sound system. KINDERMANN offers various audio equipments for mobile use or permanent installation.

Mobile Audio boxes

Mobile Sound Champ MP3/DVD (portable microphone set)	No. 8702-10
Mobile Sound Champ MP3/DVD (Lavalier microphone set)	No. 8702-11
Mobile Sound Champ MP3/DVD (Microphone with head set)	No. 8702-12

Powerful mobile all-in-one box with integrated
- Video DVD player
- MP3 player
- Battery
- IR remote control
- Radio microphone

Technical data:

Power	88 W RMS
Speakers	1x 8" full range
Inputs	1x line (stereo Cinch), 1x microphone (combo XLP/jack)
Outputs	1x loudspeaker output 8Ω (Speakon), 1x line (stereo Cinch)
Battery	2x 12V, 7 Ah
good for	ca. 2 - 3 hours
charging time	up to 10 hours
Power supply	100 - 240V/50-60 Hz
Dim. in mm	430 x 270 x 280
Weight incl. battery	15.1 kg
Radio microphone	
Receiver	Diversity
Frequency	16 selectable frequencies between 863 - 865 MHz
Frequency stability	+/- 0,005 %
Frequency response	50 Hz – 15kHz, ± 2dB
Transmission capacity	max. 10 mW
Integrated DVD player for Video-DVDs and Audio CDS	
Readable formats:	DVD/SVCD VCD/CD-R/RW/MP3-CDs/Audio CDs
Video formats:	MPEG1, MPEG2
Video outputs:	1x Video, (Cinch), 1x VGA (HD15 jack)
Audio outputs:	1x Stereo Cinch, 1x 5.1 via Koax (DolbyDigital)
Integrated MP3 player with 64 MB memory and SD card slot	
Capacity:	up to 60 min (sampling 48k/bits)
Internal memory:	64 MB
Connection:	via SD-Card up to 1 GB
Connection:	USB 1.1 (for various data sources)
Plug and Play:	Windows 98 SE and later

Active loudspeakers

KINDERMANN Mobile Box 75 W	No. 8700

Good value mobile box. Ideal for schools or sport events.
- Power 75 W
- Integrated battery
- CD player
- Cassette recorder
- Radio microphone
- Detachable trolley with telescopic handle
- incl. protective cover

Technical data:

Power	75W RMS
Speakers	1x 8" full range
Inputs	2x line (stereo cinch/6.3 mm jack), 2xmicrophone (XLR/6.3 mm jack)
Outputs	1x line (6.3 mm jack)
Battery	2x 12V, 4.5 Ah
good for	ca. 2-6 hours
charging time	1.5 – 8 hours
Power supply	230V/50 Hz
Dim. in mm	440 x 330 x 240
Weight incl. battery	13 kg
Radio microphone	
Receiver	Non Diversity
Frequency	863.100 MHz or 864.500 MHz
Frequency stability	+/- 0,005 %
Frequency response	50 Hz – 18 kHz, +/-3dB
Transmission capacity	max. 10 mW

Passive loudspeakers by Tannoy

KINDERMANN ActiveBox set 50+, white	No. 8705-20
KINDERMANN ActiveBox set 50+, black	No. 8705-21

The perfext Active Box for schools and conference rooms. Consists of an active and a passive loudspeaker, connection cables and wall mounts

Technical data:

Power	30W RMS / 50 W music
Speakers	1x 5.25" subwoofer, 1" tweeter
Frequency	45 Hz - 20 KHz
Emmision	120° x 100°
Inputs	1x Cinch Stereo, 1x 3.5 mm jack, 1x symmetric (Euro block)
Outputs	Loudspeaker output (1x Euro block)
Volume control	Volume, treble, bass
Power supply	230V/50 Hz
Dim. in mm	238 x 181 x 170
Weight	5.75 kg incl. wall mounts

KINDERMANN Active Box 100, black	No. 8706

Powerful Active Box, feedback resistant, with wall mount and adapter for tripod

Technical data:

Power	2 x 80W RMS 100 Watt music
Speakers	2 x 5" broadband speakers with volume control
Input	1x Combo socket (6.3 mm jack/XLR) (MIC/line switchable) and 1x Cinch Stereo (line)
Output	3-pin XLR socket
Power supply	230V/50 Hz
Dim. in mm	320 x 200 x 200
Weight	5.8 kg

Passive loudspeakers by Tannoy

Apart MASK4T set, white	No. 8711
Apart MASK4T set, black	No. 8711-1

Compact well-designed loudspeaker which is suitable for many applications. The impedance of 16 Ohm allows a parallel operation of 4 loudspeakers at one 4 Ohm amplifier output. Also, an operation with 100 V is possible, e.g. in an ELA unit.

Detachable front grid, supplied with wall mount, in a set of 2 speakers.

Technical data:	
Power	50 Watt RMS
Speakers	1x4.2" subwoofer, 1x1" tweeter
Frequency	80Hz – 20kHz
SPL	1W/1 m – 89 dB
Sound impact	116 dB (peak)
Impedance	16 Ω
Operation	100V or 16 Ω
Emission	120° x 80° when tilted downwards by 5°
Connections	Clamp connections
Casing	ABS platic
Dim. in mm	223x129x130
Weight	2.05 kg

Apart MASK6 set, white	No. 8711-5
Apart MASK6 set, black	No. 8711-6

High-quality full range loudspeakers, also suitable for outdoor use (IP 64).

Detachable front grid, supplied with wall mount, in a set of 2 speakers.

Technical data:	
Power	150 Watt RMS
Speakers	1x6,5" subwoofer, 1x1" tweeter
Frequency	65Hz – 20kHz
SPL	1W/1 m – 92 dB
Sound impact	121 dB (Peak)
Impedance	8 Ω
Emission	120° x 80° when tilted downwards by 5°
Connections	Clamp connections
Colour	black or white
Casing	ABS platic
Dim. in mm	315x175x195
Weight	3.4 kg

Amplifier

Teac AR 610	No. 8715-6

High-quality stereo amplifier with microphone input. Supplied with IR remote control

- 2 x 90 W RMS, 8 Ω
- 2 x 120 W RMS, 4 Ω
- 7 Stereo-Cinch in
- 2 Stereo-Cinch out
- Motor driven master volume control
- Pitch and balance control
- Adjustable microphone input (6.3 mm jack)
- A/B speaker option
- 6.3 mm headset connection
- Dim: 435 x 142 x 355 mm
- Metal casing: black
- Weight: 9.7 kg

Microphones

Phoenix MD 58	No. 8720

Dynamic portable microphone in metallic casing, hardly any feedback.

Windproof, with a noise-free switch in the handle.

Frequency response	50 Hz-16 kHz
SPL	56 dB (-/+ 3 dB)
Impedance	120 Ω / cap with 12 Ω
Connection	symmetric XLR
Dim.	Length: 186 mm, Ø 47 mm
Weight	0.300 kg

| Phoenix UHF 8080 Portable microphone set	No. 8720-1
Phoenix UHF 8080 Lavalier microphone set	No. 8720-5
Phoenix UHF 8080 Microphone with head set	No. 8720-6

Radio microphone set consisting of a 16 channel receiver and a dynamic radio microphone. Top modern radio technology and a „True Diversity" receiver guarantee outstanding sound performance and maximum operation safety.

Frequency response	40 Hz - 15 kHz
Output	1x sym. XLR (200 mV), 1x unsym. 6.3 mm jack (400 mV)
Dynamic	> 90 dB
Transm. frequency	16 channels between 827.00 and 851.00 MHz
Range	ca. 80 m
Power	9 mW
Operation time	ca. 15 hours
Power supply	230V AC / 17V DC, sender 3 x 1.5 V (AA) or battery
Dim. in mm	262 x 58 x 230
Weight	ca. 1.1 kg / microphone 0.270 kg

Interactive presentation systems

Interactive systems are the ideal tool for new ways of presentation. For working with an interactive whiteboard you need a computer and a data/video projector, which projects the computer image on the touch sensitive surface of the board. This turns the board into a large touchscreen.
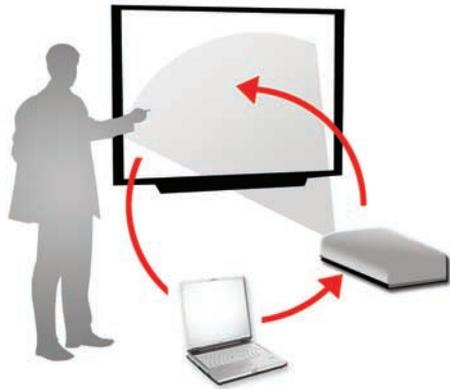
By touching the surface the mouse can be moved or commands can be given, i.e. all the mouse functions are at your disposal.

The advantages of interactive products:

- Impressive visual information
- Raised attention among the audience
- Simple digitalization of data
- Quick and easy data transport digitally or in print

Applications e.g.:

- Presentations
- Teaching on all school levels
- Computer training
- Brainstorming

- In addition the supplied software makes it possible to write into the projected image, e.g. to supplement your notes.

- Such data can be stored, printed or wiped off with a „sponge". As your notes are realized on a second level, the underlying computer image remains unchanged.

Interactive boards are multi-purpose systems – comprising four products in one:

Projection screen
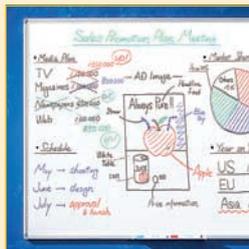
Conventional whiteboard / blackboard

Copyboard

Interactive board

Polyvision Webster boards TS / TSL

The TS range is the proper product for all users who like working with a versatile board software.

Due to the touch-sensitive surface and the „iconstrip" on the left margin working with the board is really easy.

The Webster software realizes all notes and drawings which are written on the surface with a whiteboard marker in real time. Special pens are not needed.

Webster boards TS 410 writing surface 57" / 114 x 89 cm	No. 7472-1
Webster boards TS 610 writing surface 78" / 165 x 109 cm	No. 7472-2
Webster boards TS 810 writing surface 104" / 241 x 109 cm	No. 7472-3

! We offer various accessories for the interactive boards, e. g. rail systems etc. Ask for more details.

Polyvision Walk-and-Talk™ Boards

The Walk-and-Talk™ Boards do not require any additional software, unlike most of the other systems.

This makes time-consuming training superfluous. In no time is the user able to operate such a board. This feature is of special advantage when several users work with the system. So training expenses are nearby zero.

Intuitive operation without sophisticated software installation

The Walk-and-Talk™ Board is ready to „plug and play" due to the new PolyKey™.

Before the first use of the board the PolyKey™ is connected to the USB interface. The driver is thereby installed and the presentation can begin!

The advantage for the presenter is that he can move freely in the lecture room while having everything under control.

Via the Walk-and-Talk™ IR remote all the interactive functions can be used and mouse-controlled.

Walk-and-Talk™ Boards

Walk-and-Talk™ WT 1410 writing surface 57″ / 114 x 89 cm	No. 7477-1
Walk-and-Talk™ WT 1610 writing surface 78″ / 165 x 109 cm	No. 7477-2
Walk-and-Talk™ WT 1810 writing surface 104″ / 241 x 109 cm	No. 7477-3

Self-adjusting boards – with „Lightning technology"

These boards automatically adjust themselves to the light signals sent by the data/video projector. Only three steps are necessary:

Switch on the projector

Press the projection button on the W+T remote or on the iconstrip of the TSL board

Start working

Boards with „Lightning technology"

Webster TSL 410 writing surface 57″ / 114 x 89 cm	No. 7472-5
Webster TSL 610 writing surface 78″ / 165 x 109 cm	No. 7472-6
Webster TSL 810 writing surface 104″ / 241 x 109 cm	No. 7472-7

Walk-and-Talk™ WTL 1410 writing surface 57″ / 114 x 89 cm	No. 7477-5
Walk-and-Talk™ WTL 1610 writing surface 78″ / 165 x 109 cm	No. 7477-6
Walk-and-Talk™ WTL 1810 writing surface 104″ / 241 x 109 cm	No. 7477-7

Interactive TFT Display

The interactive TFT Display is an inexpensive alternative to the interactive whiteboards. It is used in big conference rooms and auditoriums. The lecturer can comfortably write on the display with a special pen while his presentation is projected on a large screen.

Interactive Panel	Walk-and-Talk™ IP 17
No.	7473-7
Image diagonal	17″
Resolution	1280 x 1024
Brightness	220 cd/m²
Contrast	450 : 1
Inputs	VGA / USB
Outputs	VGA

Accessories:

Stands for Walk-and-Talk™ Boards
Sturdy steel construction, 2 feet with lockable castors, black colour, with easy height adjustment, with deposit rack

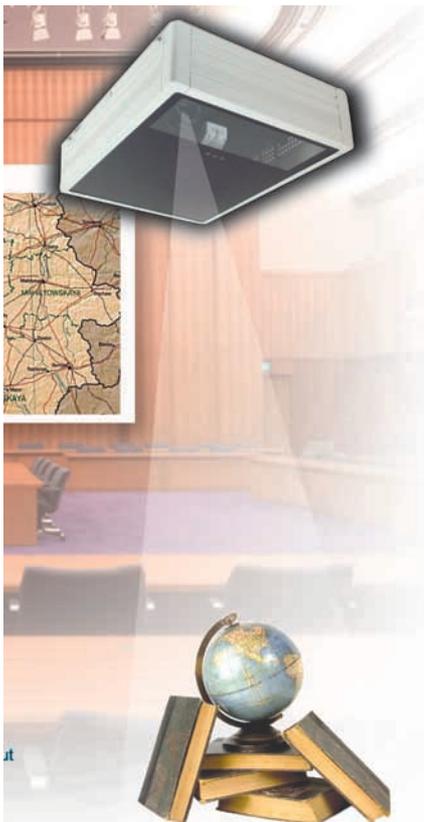|	
for WT (L) 1410	No. 7475-4
for WT (L) 1610	No. 7475-5
for WT (L) 1810	No. 7475-6

Stands for TS-Boards
Sturdy steel construction, 2 feet with lockable castors, black colour, height adjustment

for TS (L) 410	No. 7475-1
for TS (L) 610	No. 7475-2

Subject to technical alterations, as well as to changes of the design and the colour

Visualizer CL 500
For ceiling mounting

Like a projector the ceiling visualizer CL 500 can be mounted on a ceiling or integrated in a false ceiling. So no device on the desk blocks the view of the audience. Moreover, the CL 500 can project larger objects without any problems.

Features

- XGA resolution (1024x768 pixels)
- Progressive Scan CCD with 20 pictures per second
- Network control possible
- Integrated memory for up to 64 screen shots
- Integrated Seamless Switcher for switching between camera and computer image
- Recommended distance between camera and working area: 2 m

Simple positioning of the objects

The ceiling visualizer CL 500 creates an illuminated area which equals the size of the working surface.
At the same time the object to be projected is illuminated.

Easy installation and maintenance

The visualizer can be fixed like a projector to a Vario ceiling mount.
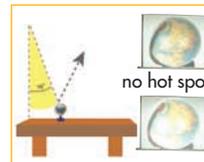
All connections are on the top of the device.

This makes servicing, e.g. lamp change, really easy.

No disturbing reflections

The light shines on the working surface at an angle of 16°, thus effectively avoiding disturbing reflections or a hot spot.

no hot spot

Distance to the working area	Illuminated area	Max. size of the working area	Min. size of the working area
2000 mm	480 x 360 mm	990 x 745 mm	153 x 115 mm

Visualizer PS 600 / PS 400
The high-end desktop presenter

The PS 600 and PS 400 offer a number of special functions and features which make them the proper choice for professional use.

Features

- XGA resolution (1024x768 pixels)
- 12x optical zoom
- Progressive Scan CCD with 22 pictures per second (PS 600) 20 pictures per second (PS 400)
- Camera can be rotated by 90, 180 or 270°
- Integrated memory for up to 64 screen shots
- Can be extended via a CF card

Integrated Seamless Switcher (PS 600)

The PS 600 has an integrated Seamless Switcher which makes it possible to switch from the camera image to that of a connected computer without making a synchronization of the projector necessary.

Rotating camera

The camera can be rotated by 90, 180 or 270 °.

180°

Large working surface

Even large objects can be perfectly positioned.

Split screen

Allows the comparison of the live image of the camera with the screen shots stored in the memory.

LCD control monitor	No. 7461-8

Optional LCD control monitor for PS 600, size 3.5" diagonal

Visualizer DC 153 / Visualizer DC 160

The visualizers DC 153 and DC 160 combine the flexible application of a swan-neck camera with the professional quality of a visualizer.

Features

- XGA resolution (1024x768) (DC 153)
- SXGA resolution (1280x1024) (DC 160)
- Progressive Scan CCD with 20 resp. 15 screen shots per second
- Integrated memory for up to 48 resp. 64 screen shots
- Autofocus and 3x zoom (DC 160)

Flexible positioning of the camera

Some objects are not flat. Therefore the swan neck can be rotated by nearly 360 ° and thus objects can be viewed from different angles.

Integrated illumination

The integrated lamp is mounted on an extra swan neck, which makes it flexible. So it can be positioned in a way that light reflections are avoided. The lamp life is approx. 20,000 hours.

Technical data:

	Mobile	Mobile	Desktop	Desktop	Ceiling
Model	DC 153	DC 160	PS 400	PS 600	CL 500
No.	7461-7	7461-10	7461-9	7461-4	7461-5
Image sensor	1/3″ CCD Progressive Scan	1/3″ CMOS Progressive Scan	1/3″ CCD Progressive Scan	1/3″ CCD Progressive Scan	1/3″ CCD Progressive Scan
Resolution in pixels	XGA 1024 x 768	SXGA 1280 x 1024	XGA 1024 x 768	XGA 1024 x 768	XGA 1024 x 768
Picture sequence in seconds	20	15	20	22	20
Integrated memory	64	48	80	64	64
Slot for memory extension	–	–	Compact flash	Compact flash	–
Rotating head	„swan-neck"	„swan-neck"	90°/180°/270°	90°/180°/270°	–
Integrated seamless switcher	–	–	–	yes	yes
Zoom	16x digital	3x optical, 16x digital	12x optical, 4x digital	12x optical, 4x digital	12x optical, 16x digital
Zoom / focus	manual/autofocus	motorized/autofocus	motorized/autofocus	motorized/autofocus	motorized/autofocus
Illumination	1 lamp	1 lamp	2 arms, lamp background light 127x101 mm	2 arms, lamp background light 127x101 mm	illuminated working surface lamp (100 W)
Image comparison/Split screen	–	–	–	yes	yes
LCD control monitor	–	–	–	optional, 3.5″ diagonal	–
Inputs	VGA via DVI-I	VGA via DVI-I	VGA	VGA mouse port (PS/2)	VGA
Outputs	VGA/DVI-D or video	VGA/DVI-D or video	VGA, DVI, video, S-video, DC 12V/0.75A	VGA, DVI, video, DC 12V/0.75A	VGA, DVI-D
Serial interface	RS 232, USB 1.1	RS 232, USB 1.1	RS 232, USB 1.1	RS 232, USB 1.1 Ethernet	RS 232, USB 1.1 Ethernet
Max. working surface	360 x 270 mm	340 x 270 mm	350 x 260 mm	350 x 260 mm	see page 44
Min. working surface	48 x 36 mm	48 x 38 mm	32 x 24 mm	32 x 24 mm	see page 44
Dim. in operation	450 x 220 x 400 mm	460 x 220 x 400 mm	520 x 350 x 590 mm	520 x 350 x 590 mm	375 x 289 x 94 mm
Weight	ca. 2.2 kg	ca. 2.3 kg	ca. 5 kg	ca. 5 kg	ca. 6 kg
Supplied with	connection cables, software, IR remote control	connection cables, software, IR remote control	connection cables, software IR remote control	connection cables, Software, IR remote control	connection cables, Software IR remote control

Copyboards M11
Make your meetings more effective

- Ideal for conferences, meetings, team work
- For storing data directly on a USB stick (without PC)
- Direct connection to PC via USB cable
- For printing data with a printer (printer is not supplied)
- Easy use – for quick processing of notes
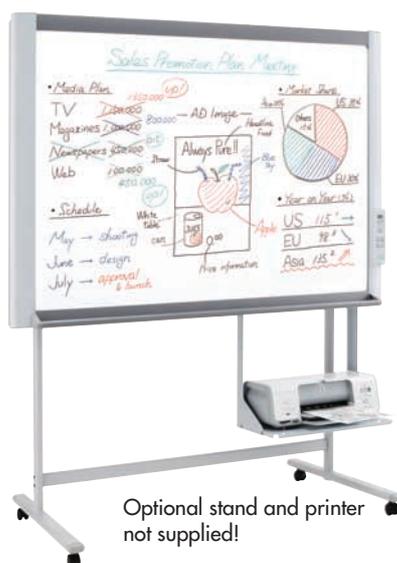
Optional stand and printer not supplied!

Copyboard M11-S

Electronic writing board with USB memory for storing and transferring data on a PC. With two writing surfaces 124 x 85 cm.

Copyboard M11-S	No. 6936

Copyboard M11-W

Similar to Copyboard M11-S, but wiht two writing surfaces 174 x 85 cm.

Copyboard M11-W	No. 6936-1

Accessories for Copyboard M11-S and M11-W

Printer	No. 6936-2
Stand with castors	No. 6949-3

Technical data

Model	Copyboard M11-S	Copyboard M11-W
Ref. No.	6936	6936-1
Installation	wall mounting or T stand	
Outer dim. (with T stand)	1470 x 700 x 1.970 (max) mm	1970 x 700 x 1.970 (max) mm
Weight	29 kg (Copyboard), 9.6 kg (stand)	33 kg (Copyboard), 9.6 kg (stand)
Power consumption	**Standby:** 7W or less; power on 7W; **Operation:** 40W (printer not included)	
Writing surface	50 mm squares	
Board		
Board dim.	1300 x 920 mm	1800 x 920 mm
Effective reading area	128 x 90 cm	178 x 90 cm
Number of pages	2	
Subdivision of pages	per single board surface of as required	
Driving method	one direction, endless (horizontal)	
Interface	USB 1.1 or USB 2.0 full-speed mode (no high speed): 3 Ports; 2 Ports at lower part of board (type A, type B); 1 port at the lower part of control panel (type A)	
Reading method	CCD optical sensor (RGB LED)	
Resolution	2.4 dots / mm	
Printer		
Paper	standard paper, DIN A4 size	
Print density	ca. 300 dpi	
Colours	colour or balck & white	
PC connectivity / memory		
Support OS	Microsoft Windows 2000 Professional (SP4 or later); XP (SP2 or later)	
File format	PNG, BMP, JPEG, TIFF	
Type	USB Flash Memory	
File format	PNG and HTML with link to PNG	
Colours	colour: 256; black & white: 16	
Operating conditions		
Power source	AC100–240 V, 50/60 Hz	
Temperature / humidity	10 – 35°C (operation) / 30 – 85% (no condensation)	
Supplied with	Set of 4 markers (black, red, blue, green), eraser, AC adapter (with 4 m cable), 1 USB cable (3 m), wall mounting bracket incl. screws, user and installation manuals, 5 sheets of paper for test prints, CD-ROM (TWAIN driver, graphic software, setup-utility, user manual (in pdf)	

The classical presentation media

KINDERMANN overhead projectors

- High light output
- Good value
- Low maintenance costs
- Easy to operate
- Plug and play

Overhead projectors have always been and still are the most widely spread means of presentation in schools and conference rooms.

Without requiring special technical understanding they enable the user to prepare his presentation in a very short time, to visualize facts convincingly and to get across a subject matter or a message clearly.

Moreover, the pre-fabricated transparency can be easily changed or supplemented while the lecture is going on.
Problems like a loss of data, a programme failure or incompatibility do not bother the user of an ohp.

KINDERMANN offers any user a versatile programme of overhead projectors

Famulus reflex

The light-weight travellers

Famulus alpha

The low-budget projectors

Famulus beta

The professional projectors

Famulus beta 400 K

Projector with Keystone correction

High quality

KINDERMANN overhead projectors have always been developed and produced at our Ochsenfurt headquarters. They are subject to strict quality controls.

ISO certified

The high quality standard of the whole manufacturing process is guaranteed by the German industrial standard DIN ISO 9001:2000.

3-year warranty

For all overhead projectors KINDERMANN offers a three-year warranty.

Maintenance-friendly

All KINDERMANN overhead projectors are maintenance-friendly, their functions are easy to check and, if necessary, components can be exchanged quickly. KINDERMANN provides an excellent after-sales service, even many years after the purchasing date.

Environment-friendly

KINDERMANN overhead projectors are environment-friendly. All components of the bodies are marked with different codes for different materials. They are not glued together so that they can be easily dismantled and recycled.

Quality made in Germany by KINDERMANN

3 years warranty

DIN ISO 9001:2000

Subject to technical alterations, as well as to changes of the design and the colour

Users who travel a lot know the problems:

It is often difficult to visualize a lecture because of poor projection facilities at one´s destination. Who wants to be on the safe side, relies on his own overhead projector.
The Famulus reflex projectors are the best choice for mobile use. They are very handy and extremely powerful.

They create brilliant pictures to convince any audience.
The Famulus reflex M is equipped with a metal halide lamp which means more light (4400 lumens) and a white and true-colour large-screen projection.

The high-quality 3-element vario-focal lens avoids colour fringes, and its automatic focal compensation and the Keystone correction of 8° makes it suitable for up-ward projection.

Famulus reflex • reflex T • reflex M
The light-weight travellers – small, super bright and flexible in use

reflex
3000
lumens

reflex T
3000
lumens

reflex M
4400
lumens

Supplied with carrying bag

Quality made in Germany
by KINDERMANN

The highlights of the reflex projectors
- Easy transport, low weight
- Ready for use in no time
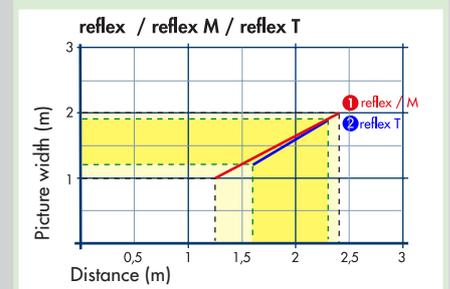- Extremely flat working surface

Exclusive features:
- Excellent light output: up to 4400 lumens
- In transport position 11 cm high only

Standard features:
- High-quality 3-element vario-focal lens f = 280 - 300 mm (reflex/reflex M)
- 3-element lens f = 300 mm (reflex T)
- Quick lamp changer with 2 halogen lamps 24 V/250 W (reflex/reflex T)
- Metal halide lamp 300 W (reflex M)
- Electronic power supply with voltage stabilizer for a soft start (reflex/reflex M)
- Conventional transformer (reflex T)
- Working surface A4 horizontal+vertical
- Glare-free fresnel lens

Picture size chart

reflex / reflex M / reflex T

① reflex / M
② reflex T

Picture width (m)

Distance (m)

Dimensions reflex / (reflex T/M)

438 (455)

293

404 (430)

In transport position:
293x100 (110) x 404 (430) mm

		No.
Famulus reflex	2 Halogen lamps 24 V/250 W/50 h • 3000 lumens • 4.5 kg	**No. 6088**
Famulus reflex T	2 Halogen lamps 24 V/250 W/50 h • 3000 lumens • 6.5 kg	**No. 6089**
Famulus reflex M	Metal halide lamp 300 W • 4400 lumens • 4.6 kg	**No. 6090**
Halogen lamp 24 V/250 W	300 hours	**No. 6049**
Metal halide lamp 300 W	750 hours	**No. 6093**
Deluxe carrying case		**No. 6159-1**

Famulus alpha 250 • alpha 400
The projectors for the small budget – „Made in Germany"

You are looking for a reliabe and maintenance-free overhead projector with a good projection quality but you have only a small budget?
Then the Famulus alpha projectors are the proper choice for you.

alpha 250
2500 lumens

alpha 400
4400 lumens

✚ Patented safety lens head
• no overheating of the lens

✚ Foldable projection arm
• for convenient storage

✚ No disturbing fan noise
• < 31 dB(A)

■ **Quality made in Germany**
by KINDERMANN

The highlights of the alpha projectors

Exclusive features:
- Safety lens head with a rotating knob for precise picture height adjustment
- Top quality „Made in Germany" by KINDERMANN

Standard features:
- High-quality 3-element projection lens f = 315 mm – high sharpness, good contrast
- Quick lamp changer with 2 halogen lamps
- Foldable projection arm
- Very low fan noise – 31 dB(A) only
- Operating buttons on top
- Glare-free fresnel lens
- Retractable pins for holding transparencies
- Optional roll attachment

Foldable projection arm
- for easy transport
- for convenient storage

Picture size chart
alpha 250 / 400

Picture width (m) / Distance (m)
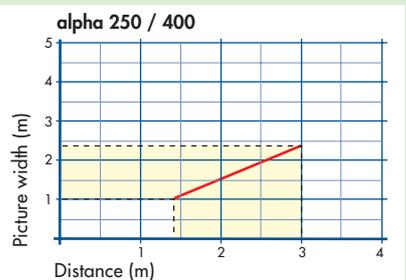
Dimensions alpha 250/400
ca. 870
385
580
360
275

In transport position: 385x405x500 mm
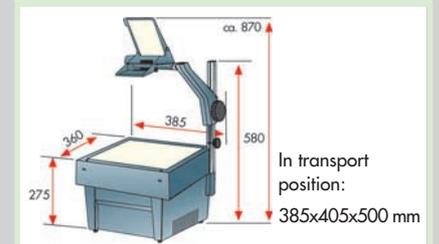
Famulus alpha 250	2 Halogen lamps 24 V/250 W/50 h • 2500 lumens • 8.2 kg	**No. 9052**
Famulus alpha 400	2 Halogen lamps 36 V/400 W/50 h • 4400 lumens • 9.4 kg	**No. 9053**
Halogen lamp 24 V/250 W	300 hours	**No. 6049**
Halogen lamp 36 V/400 W	300 hours	**No. 6071**
Dust cover		**No. 6806-2**
Roll attachment		**No. 9011**

Subject to technical alterations, as well as to changes of the design and the colour

Famulus beta

Famulus beta 250 • beta 400
The professional projectors for schools, seminars and training

Innovative technology as well as safe and convenient operation characterize the Famulus beta projectors.

Famulus beta 250

For the projection in small or medium-sized rooms.
With 2 halogen lamps 24 V/250 W, quick lamp changer with LED for lamp failure, economy switch, glare-free fesnel lens, variofocal lens f= 275–320 mm, slot for anti- theft device, lockable projector body, foldable projection arm. Weight: 9.5 kg

Famulus beta 400

For the projection in medium-sized or large rooms.
With 2 halogen lampes 36 V/400 W. Otherwise identical with beta 250.
Weight: 10.5 kg

beta 250	beta 400	beta 575 M
3500 lumens	**5400** lumens	**11000** lumens

Quality made in Germany
by KINDERMANN

Famulus beta 575 M
The professional projector with extra high light output

Famulus beta 575 M

Perfect for large screens presentations with colour-true images even in sunlight rooms.

Equipped with 575 W metal - halide lamp with average lamp life of 1000 hours, indication of operating time and LED for lamp changing. Otherwise identical with beta 250.
Weight: 13.9 kg

The highlights of the beta projectors

Exclusive features:

- Patented safety lens head with manual focusing for upward projection and precise picture height adjustement
- Manual focal compensation for upward projection
- Lockable projector body
- Slot for anti-theft device
- Condensor lens for a perfect overall illumination of the image

Standard features:

- High-quality 3-element vario-focal lens f = 275 - 320 mm – no colour fringes
- Quick lamp changer with LED for lamp failure (in units with halogen lamp)
- Economy switch
- Glare-free fresnel lens
- Retractable pins for holding transparencies
- Foldable projection arm
- Operating buttons on top
- Very low fan noise <30 dB(A)
- Place for keeping pens, integrated in frame
- Retractable pins for holding transparencies
- Optional roll attachment

Patented safety lens head
- • no overheating of the lens

No disturbing fan noise
- • < 30 dB(A)

Lockable projector body
- • protects against unauthorized handling

High light output
- • up to 11000 lumens

Lockable projector body
prevents unauthorized persons from opening the top of the projector body and tampering with the technical components.

Anti-theft device
Slot to attach a lock as an anti-theft device.

Foldable projection arm
for convenient transport and storage.

Safety lens head
no overheating ot the lens – even when lens head closed.

Cable storage
on the rear side.

Picture size chart

beta

Picture width (m) / Distance (m)
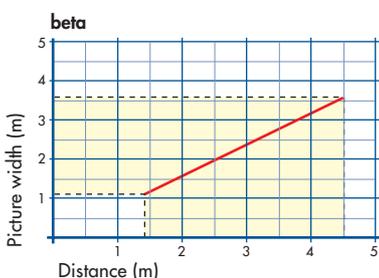
Dimensions beta 250/400/575 M

ca. 810 / 385 / 635 / 405 / 275

In transport position:
385x320x525 mm

Famulus beta 250	2 Halogen lamps 24 V/250 W/50 h • 3500 lumens • 9.5 kg	**No. 9000**
Famulus beta 400	2 Halogen lamps 36 V/400 W/50 h • 5400 lumens • 10.5 kg	**No. 9005**
Famulus beta 575 M	Metal halide lamp 575 W • 11000 lumens • 13.9 kg	**No. 9025**
Halogen lamp 24 V/250 W	300 hours	**No. 6049**
Halogen lamp 36 V/400 W	300 hours	**No. 6071**
Metal halide lamp 575 W	1000 hours	**No. 6797**
Dust cover		**No. 6806-2**
Roll attachment		**No. 9011**
Anti-theft device		**No. 5775**

Famulus beta 400 K
The large-screen projector with Keystone correction

beta 400 K
4700
lumens
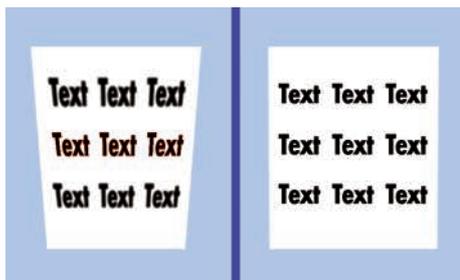
To allow any member of the audience to see the full size of the picture, you have to project it at an extremely steep angle which leads to a trapezium-like distortion of the overall dimensions.

The special overhead projector with Keystone correction in upward or sideward projection excludes such a distortion up to a projection angle of 13°. Parallel lines remain parallel, a rectangle remains a rectangle.

Keystone correction 13°
• distortion-free projection

No disturbing fan noise
• < 30 dB(A)

Quality made in Germany
by KINDERMANN

The highlights of the beta 400 K

Exclusive features:
- Keystone correction 13° (30%)
- High-quality 3-element vario-focal lens (f=300–340 mm) – no colour fringes

Standard features:
- 2 Halogen lamps 400 W
- Lockable projecor body
- Economy switch
- Quick lamp changer with LED for lamp failure
- Glare-free fresnel lens
- Very low fan noise < 30 dB(A)
- Place for keeping pens, integrated in frame
- Operating buttons on top
- Retractable pins for holding transparencies
- Optional roll attachment

Picture size chart
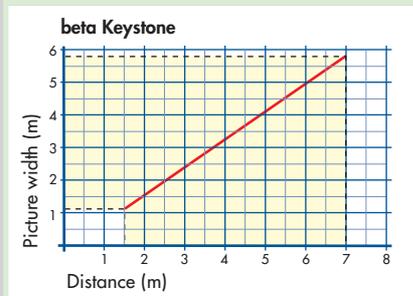
beta Keystone

Dimensions beta Keystone

Famulus beta 400 K 2 Halogen lamps 36 V/400 W/50 h • 4700 lumens • 12.1 kg		**No. 9010**
Halogen lamp 36 V/400 W	300 hours	**No. 6071**
Roll attachment		**No. 9011**
Dust cover		**No. 6806-2**
Anti-theft device		**No. 5775**

Technical data of the overhead projectors

KINDERMANN model	Ref. No.	Projection lens in mm	Projection lamp in W	Average lamp life in hours	Metal halide lamp / Halogen lamp	Light output in lumens	Working area in mm	Focal compensation	Lamp change LED	Quick lamp changer	Economy switch	Overheating protection	Noise level db(A)	Foldable projection arm	Slot for anti-theft device	Lockable projector body	Voltage* (V / Hz)	Weight in kg
reflex	6088	280-300	250	50	– / •	3000	285x285	•		•		•	36	•			230/50-60	4.5
reflex T	6089	300	250	50	– / •	3000	285x285	•		•		•	36	•			230/50-60	6.5
reflex M	6090	280-300	300	750	• / –	4400	285x285	•		•		•	36	•			230/50-60	4.6
alpha 250	9052	315	250	50	– / •	2500	285x285			•		•	31	•			230/50-60	8.2
alpha 400	9053	315	400	50	– / •	4400	285x285			•		•	31	•			230/50-60	9.4
beta 250	9000	275-320	250	50	– / •	3500	285x285	•	•	•	•	•	30	•	•	•	230/50-60	9.5
beta 400	9005	275-320	400	50	– / •	5400	285x285	•	•	•	•	•	30	•	•	•	230/50-60	10.5
beta 575 M	9025	275-320	575	1000	• / –	11000	285x285	•	•	•	•	•	30	•	•	•	230/50	13.9
beta 400 K	9010	300-340	400	50	– / •	4700	285x285	•	•	•	•	•	30		•	•	230/50-60	12.1

* other voltage upon request

Working material for overhead projectors

Transparency rolls and sheets

For the professional preparation of a lecture as well as for making notes during the lecture. Made from environmentally friendly materials. Suitable for felt pens.

Felt pens

For writing on transparencies, package with 6 different colours: black, blue, red, green, yellow and brown.

|			
Transparency roll	10 m long/29.7 cm wide		No. 6078
Transparency roll	30 m long/29.7 cm wide		No. 6074
Transparency sheets	0.08 mm/DIN A 4	100 per package	No. 6864
Transparency sheets	0.10 mm/DIN A 4	100 per package	No. 6865

Felt pens	water soluble / fine	No. 6091
Felt pens	water proof / fine	No. 6092
Felt pens	water soluble / medium	No. 6099

Laser pens „for making a point"

These three low-priced laser pens support your presentation. A red dot clearly marks details of the projection over a distance of more than 50 m. Safety class 2.

6960   6960-1   6960-2
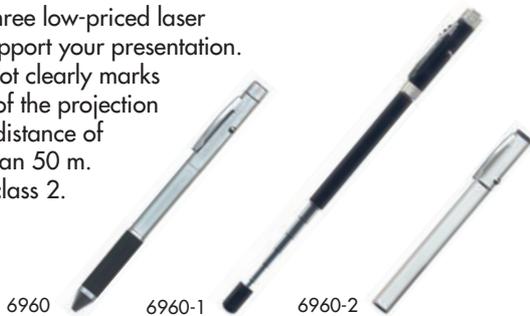
The laser pen No. 6960-2 is equipped with 2 AAA batteries, the models No. 6960-0 and 6960-1 are equipped with 3 batteries LR41.

Laser pen with PDA and ball pen	No. 6960
Laser pen with ball pen and pointer	No. 6960-1
Laser pen	No. 6960-2

Green Laser Pointer

This innovative laser pointer is much brighter than any model with a red dot. You can be sure, the green dot will attract the attention of each member of your audience.
Especially useful for sunlit rooms or auditoriums. Safety class 2, supplied with two 1.5 V AAA batteries.

- Range up to approx. 200 m
- Wave length 532 mm
- Dim.: 15.5 cm long, 1.4 cm wide
- Weight: ca. 0.074 kg incl. battery
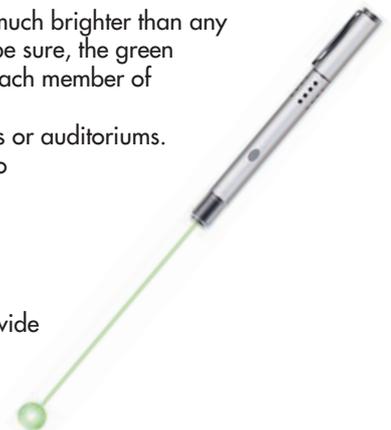
Laser pen with a green dot	No. 6960-3

Remote controls for computer presentations

When using the KINDERMANN remote controls you need not stand next to your notebook, and you need not ask anyone for assistance either. The radio remote allows you to move freely in the conference room. The „plug & play" installation is really easy.

Global Presenter RF	No. 7462-2

The Global Presenter RF ist the proper tool for a professional presentation.

Functions
- Mouse function left/right
- Page up/down
- Blanking
- Laser pointer

Wireless Presenter	No. 7462-1

The Wireless Presenter combines all functions of a mouse with those of a remote control and a laser pointer.

Functions
- Mouse function left/right
- Page up/down
- White/black monitor
- Laser pointer

Technical data:

Model	Global Presenter RF	Wireless Presenter
Range	up to 30 m	up to 15 m
Frequency	2,4 GHz	2400 - 2483 MHz
Dimensions / Weight	110 x 62 x 37 mm / 0.140 kg	130 x 38 x 21 mm / 0.058 kg
Interface	USB	USB
Prerequisites	Windows 98 or higher, free USB port	Windows 98SE or higher, Mac OS 9.1/X 10.1 or higher, free USB port
Supplied with	Sender and receiver, batteries, manual	Sender and receiver, batteries, manual

Subject to technical alterations, as well as to changes of the design and the colour
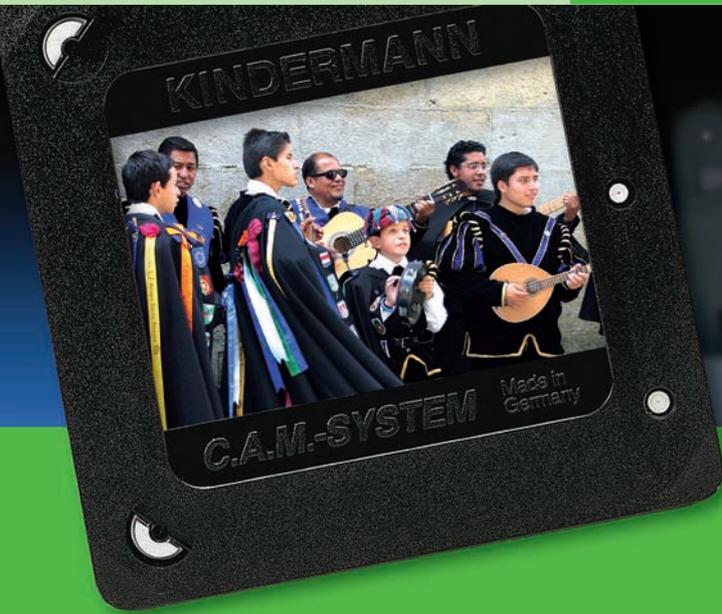
Who opts for slide projection today makes a well-considered decision, because there is an interesting alternative, the data/videoprojector.

If you just compare the technical data and their advantages and disadvantages in application, you will never fully take into account the individual preference of both media.

The characteristic aestheticism of slides hasn't lost its fascination. In terms of brilliance, intense colours and subtle contrasts slides remain impressive and incomparable.

Magic Screen IR

**Two projectors in one unit –
for presentation on the built-in monitor or on a large screen!**

**Quality
made
in
Germany**
by KINDERMANN

Two projectors in one unit

The Magic Screen IR is a 35 mm slide projector for presentation just as you please: on the built-in monitor or on a large screen.

Ready for presentation in no time

You can start your projection in a few seconds and wherever you wish.

Zoom lens

Optional zoom lens 85–150 mm for screen projection at larger distances.

Zoom lens	No. 1388

Designed like a travel case

Due to the compact design the projector and the monitor are well protected.

Features:

- Built-in monitor ⬚ 26 cm
- 2-channel IR remote control
- With magazine
- Permanent autofocus
- Halogen lamp 24 V/150 W
- Interchangeable lens 2.8/60 mm
- Compatible with 3 different magazines: LKM, universal or CS
- Single slide holder
- Focusing wheel
- Power cable coiling
- Overheating protection
- Dim.of the travel case: 325x270x150 mm
- Weight: ca. 5 kg

Magic Screen IR	No. 8008

The Magic range
High-quality 35 mm slide projectors

The Magic projectors with the powerful 250 or 150 W halogen lamps are designed for the ambitious amateur as well as for schools and seminars.

Convenient wireless operation for easy use

The 4-channel IR remote control has clearly identifiable command buttons: two buttons for forward or backward transport, two other buttons for overriding the selective autofocus, and another button for activating the integrated laser pointer.

Quick slide change for a less tiring show

The quick slide change - ca. 1.1 sec. - nearly shuts out the dark intervals between the single pictures. If there is no slide in the magazine, the slide-controlled diaphragm protects the audience against the dazzling projection light.

Selective autofocus

The autofocus automatically adjusts the sharpness of the picture. If needed you can override the mechanism on a manual switch on the remote control. All corrections are made so efficiently that they are nearly invisible to the eye.

Features:

- 4-channel IR remote control with laser pointer
- With magazine
- Selective autofocus
- Lens 2.8/90 mm MC
- Compatible with 3 different magazines: LKM, universal or CS
- Socket for tape recorder or other equipment
- On/off switch
- Slide-controlled diaphragm
- Single slide holder
- Focusing wheel
- 2 height-adjustable feet
- Quick fuse change
- Dim.: 270 x 295 x 122 mm
- Weight: ca. 5 kg

Magic 2500 AFS-IR with halogen lamp 24 V/250 W	**No. 8024**
Magic 1500 AFS-IR with halogen lamp 24 V/150 W	**No. 8021**

The diafocus range
Low-budget 35 mm slide projectors

The diafocus projectors are characterized by their solid construction and reliable technology. With their many convenient features they are truly good value units.

Integrated remote control

At both models the remote control is integrated in the projector's body.
The 2 separate buttons for forward and backward transport make the handling easy and convenient.

Single slide holder

Wrongly inserted slides can be quickly turned round. You can also project a single slide without a magazine.

Permanent autofocus

After you have done the initial adjustment manually via the focusing wheel, the autofocus adjusts the picture sharpness automatically.

Features:

- With magazine
- Permanent autofocus
- Halogen lamp 24 V/150 W
- Interchangeable lens 2.8/90 mm MC
- Forward/backward transport via remote control
- Compatible with 3 different magazines: LKM, universal or CS
- On/off switch
- Slide-controlled diaphragm
- Single slide holder
- Focusing wheel
- 2 height-adjustable feet
- Dim.: 270 x 295 x 122 mm
- Weight: ca. 5 kg

diafocus 1500 E-IR with 2-channel IR remote control	**No. 8003**
diafocus 1500 E with 2-channel cable remote control	**No. 8000**

diafocus 66 T
The high-performance projector for 6 x 6 slides

Features:

- For slide frames 7 x 7 cm in universal magazine for 30 slides
- With magazine
- Halogen lamp 24 V/250 W
- Projection lens 3.0/150 mm
- Forward/backward transport via remote control or buttons on the projector
- Socket for connecting a tape recorder, a timer or a cable remote control
- 2 dissolve sockets 6-pin and 10-/14-pin
- 2 feet for height-adjustment
- Voltage selector 115/125/230/240 V, 50 – 60 Hz
- Dim. 330 x 260 x 195 mm
- Weight: ca. 6 kg

diafocus 66 T	No. 8016

The superiority of 6 x 6 slides as to brilliance and contrast is only at its best when using the proper projector.

To make a slide show with 6 x 6 slides as convenient as a conventional one with 35 mm slides, KINDERMANN offers the diafocus 66 T, a high performance projector for single and dissolve projection at a reasonable price.

Accessories

Interchangeable lenses

To improve the picture quality we recommend high-performance lenses like the 5-element lens 2.4/90 mm.

1:2.4/90 mm MC	No. 1805
1:3.5/200 mm MC	No. 1337
Zoom lens MC 70-120 mm	No. 1385
Zoom lens MC 85-150 mm	No. 1386

Lamps

Halogen lamp 24 V/250 W	No. 1259
Halogen lamp 24 V/150 W	No. 1258

LKM and universal magazines

Plastic box with 2 LKM magazines for 60 slides each	No. 1181
Plastic box with 2 LKM magazines for 80 slides each	No. 1182
Plastic box with 2 universal magazines for 50 slides each	No. 1192
Case with 6 universal magazines for 50 slides each	No. 1592
Universal magazine for 30 slides 6x6	No. 1169

Carrying bag for 35 mm slide projectors

For transport and storage of slide projectors, designed like a camera bag, with compartment for accessories.

Carrying bag	No. 8133

Cable remote control

For projectors Magic 1500 and 2500 AFS-IR. Recommended if the conditions for an IR control are unfavourable.

Remote control	No. 1915-1
Extension cable, 10 m, for 1915-1	No. 1078

Picture size chart for 35 mm projectors, lens 90 mm

Distance in m	2	3	4	5	6	7	8	9	10
Picture width in m	0.8	1.15	1.6	1.95	2.30	2.70	3.20	3.45	3.90

Formulas for picture sizes of 35 mm slide projectors

Focal length (mm)	Projection distance (m)	Picture width
$\dfrac{35 \times \text{projection distance (m)}}{\text{picture width}}$	$\dfrac{\text{focal length (mm)} \times \text{picture width (m)}}{35}$	$\dfrac{35 \times \text{projection distance (m)}}{\text{focal length (mm)}}$

The low-budget model – No. 6293-2

stepless height adjustment 60-100 cm

Simple projection table for ohps, with base 38 x 39 cm. With 4 castors, 2 of them lockable. Weight: 7 kg.

The universal model - No. 6295

two horizontally and vertically adjustable trays 45 x 30 cm each

stepless height adjustment 75-100 cm

Practical projection table for ohps. With four castors, 2 of them lockable. Base 45 x 45 cm Weight: 13 kg

The good value model – No. 6533

Projection table for ohps with two different working levels up to a height of 72 cm. Base 50 x 50 cm. With four castors, two of them lockable. Weight: 11 kg. Optional deposit tray No. 6531

The bestseller model – No. 6535

stepless height adjustment 75-120 cm

Projection trolley for ohps of sturdy steel tube construction. Cutout: approx. 42 x 53 cm Dim.: 60 x 70 x 75/120 cm Weight: 17 kg

The comfortable model – No. 6524

stepless height adjustment 73-100 cm

Sturdy and elegant projection table for a lecturer working with an ohp in sitting or standing position. With four castors, two of them lockable. Cutout: 43 x 54 cm, base: 54 x 63 cm Weight: 28 kg

The allround model – No. 6526-1

stepless height adjustment 85-112 cm

Projection table with tiltable working surface 40x63 cm for slide projectors, d/v projectors and opaque projectors. Extendable tray for notebook 38x44 cm. With four castors, two of them lockable. Weight: 35 kg

The DVP model – No. 6522

Projection table for slide projectors, d/v projectors and opaque projectors. With tiltable projector tray 40x50 cm, with safety rail, working surface for displays and other accessories. With four castors, two of them lockable. Weight: 13 kg Optional deposit tray 40x32 cm No. 6522-1

No. 6522 Stepless height adjustment 79–120 cm.

a)
b)
No. 6375 stepless height adjustment 85–125 cm

The StandMaster model – No. 6375

Mobile projection table with adjustable deposit trays a= 42 x 35 cm, for up to 10 kg weight; b= 36 x 24 cm, for up to 5 kg weight. Can also be used as transport trolley.

The Gigant model – No. 5661

Sturdy and safe projection table, 115 cm high, with two trays, a= 40 x 50 cm, for up to 25 kg weight, b= 40 x 40 cm, for up to 15 kg weight.

a)
b)
No. 5661

No. 5665 stepless height adjustment 80–125 cm

The Solo 9000 model – No. 5665

Projection table with rimmed tray, tiltable tray 40 x 50 cm, for up to 20 kg weight.

Lectern with column

Practical and decorative lectern. Hydraulic stepless height-adjustment from 90–135 cm. Ready for use, easy to store away because it needs only little space. High-quality steel construction in grey or black, with two lockable castors.

Lectern with closed front

Mobile lectern with closed front. Tilted upper tray with ledge. Lower tray for depositing materials. Sturdy steel frame in grey or black. Deposit trays light grey or beech. Easy to clean trays and surfaces. With two lockable castors.

Lectern with column, beech	No. 4541-1
Lectern with column, grey	No. 4541-0

Lectern, beech	No. 4541-3
Lectern, grey	No. 4541-2

Lectern / Projection table / MultiMedia table – glass design

Well-designed products for lecture rooms and conference rooms. Models need only little space. High-quality chromium-plated stands with five lockable castors. All trays made of crystal-clear hardened glass. Simple stepless height adjustment. Lectern and projection table equipped with semi-transparent acrylic glass front. Maximum weight per tray 15 kg.

Technical data:
- Height: 105 - 145 cm
- Upper tray (No. 4750): 48 x 36 cm
- Upper tray (No. 4750-1): 40 cm Ø
- Lower trays (No. 4750 + 4750-1): 50 x 26.2 cm
- Weight (No. 4750-1): ca. 11 kg
- Weight (No. 4750): ca. 13 kg

Technical data:
- Height: 86.5 cm
- 4 trays (from top to bottom)
  - 1 : 40 x 30 cm   2 : 30 cm Ø
  - 3 : 60 x 30 cm   4 : 50 x 30 cm
  - PC rack: 30 x 23.5 cm
- Weight: ca. 15 kg

Glass lectern	No. 4750
Glass projection table	No. 4750-1

Glass MultiMedia table	No. 7450-2

Presentation boards

- Light-weight, sturdy aluminium construction
- Can be used on both sides
- 4 castors, 2 lockable
- Overall height approx. 198 cm

150 x 120 cm, light-blue felt cloth	No. 4530-0
150 x 120 cm, beige half linen	No. 4530-1
150 x 120 cm, white, squared	No. 4531-0
2 x 75 x 120 cm, light-blue, foldable	No. 4532-0
2 x 75 x 120 cm, beige, foldable	No. 4532-1

Presentation flip chart

- Textile pin board
- White magnetic writing board
- Universal holder for paper pads
- 4 lockable castors
- Board dim. approx. 108 x 78 cm
- Overall height approx. 190 cm

Presentation flip chart	No. 4533-0

Presentation cases

Sturdy lockable aluminium case with carrying strap

Contents:

500 square cards 200 x 100 mm
200 oval cards 190 x 110 mm
200 round cards 100 mm diameter
150 round cards 140 mm diameter
150 round cards 190 mm diameter
500 self-adhesive marker stickers
10 felt pens
4 jumbo markers
1 telescopic pointer
1 paper cutter
1 pair of scissors
1 roll of adhesive tape with tape holder
1 roll of adhesive tape
2 glue sticks
300 pins
1 pin cushion

Weight: approx. 6 kg

Presentation case	No. 6932

Sturdy plastic case with carrying handle

Contents:

10 flip chart markers (4 x black, 2 x red, 2 x blue and 2 x green), each 120 presentation cards 95 mm, 135 mm diameter and 205 x 95 mm, assorted colours, 200 pins, telescopic pointer with pen, 480 stickers in assorted colours.
Pouch for pair of scissors and adhesive tape. Size 334 x 60 x 305 mm.

Presentation case	No. 6932-1

The KINDERMANN rail system
More flexibility for your conference room

- High flexibility is guaranteed through an unlimited variety of combinations.
- The very sturdy and reliable construction allows easy and troublefree mounting in no time.
- The elegant flat design, only 7.2 cm high, fits to any room style.

- An extremely space-saving system, because one element can be moved over the other.
- A special safety device keeps the elements on the rail and allows you to move them smoothly.

- The integrated cable channel hides away the cables to the optional video shelf.
- All elements of the system can also go round the corner.

Pin board 90 x 120 cm

- Decor felt surface for easy pinning
- In light-blue or half-linen

Pin board, light-blue	No. 4515-0
Pin board, beige half-linen	No. 4515-1
Pin board, black with magnetic surface	No. 4517-0

Double wall rail

- With decor strip and paper clamping device
- Other lengths up to 5 m on demand.

Wall rail 2 m long	No. 4500-0
Wall rail 3 m long	No. 4501-1
Corner section	No. 4502-0

Projection screen

- Tiltable up to 12°
- Matt white surface

Screen 150 x 150 cm	No. 4520-0
Screen 175 x 175 cm	No. 4520-1
Screen 150 x 200 cm	No. 4521-0
Screen 180 x 240 cm	No. 4521-1

Flip chart

- With universal quick change for all common paper pads
- Magnetic writing surface
- Integrated pen tray

Flip chart size 78.5 x 107.8 cm	No. 4525-0

Video shelf

- 2 shelves, 46 x 80 cm each
- For up to 25 kg weight each

Video shelf 100 x 90 x 50 cm	No. 4526-0

Writing boards

- Enamelled magnetic surface
- For dry wipe Kindermann markers
- To be hung up in oblong or vertical format

Board 90 x 120 cm, white	No. 4510-0
Board 90 x 120 cm, light-grey	No. 4510-1
Board 90 x 180 cm, white	No. 4511-0
Board 90 x 180 cm, light-grey	No. 4511-1

Adhesive board

- For easy fixing of paper documents without any fixing material, self-adhesive

Board 90 x 120 cm	No. 4516-0

Starter kit

- Assortment consisting of whiteboard markers, wiper, magnetic pen holder, bottle of cleaner

Starter kit	No. 4527-0

Flip charts

Flip chart Budget
- Magnetic board 100 x 70 cm
- Integrated pen tray
- Holder with two fixing screws
- Height-adjustable up to 190 cm
- With tripod
- Optional wheel base

Flip chart Budget	No. 4534-1
Flip chart pad, 20 sheets	No. 6917

Flip chart Standard
- Magnetic board 105 x 70 cm
- 2 extendable arms
- Integrated pen tray
- Holder for all common paper pads
- Stepless height-adjustment up to 180 cm
- With tripod
- Optional wheel base

Flip chart Standard	No. 4535-1
Flip chart pad, 20 sheets	No. 6917

Flip chart Professional
- Magnetic board 106 x 74 cm
- Surface for dry wiping
- 2 plug-in paper holders
- Fixed 30° angle
- Quick-change holder for paper pads
- Height-adjustable from 175 up to 195 cm
- 5 lockable castors

Flip chart Professional	No. 4536-1
Flip chart pad, 20 sheets	No. 6917

Flip chart Deluxe
- Magnetic board 96 x 69 cm
- Surface for dry wiping
- Extendable paper holder on both sides
- Quick-change holder for paper pads
- Height-adjustable from 125 up to 200 cm
- Stand with 2 castors
- Suitable for sedentary work, also for disabled persons
- Easy transport system

Flip chart Deluxe	No. 4538
Flip chart pad, 20 sheets	No. 6917

Flip chart Design
Elegant flip chart with concave surface and innovative FlipRoll system with paper roll.
Just write on the paper, pull the written sheet towards the rear side or tear it off.
Also for conventional flip chart pads.
Supplied with magnetic clip and a paper roll, 35 m. With elegant five-arm stand and lockable castors.

- Magnetic board 90 x 74.5 cm
- Surface for dry wiping
- Extendable paper holder
- Height-adjustable from 162 up to 195 cm
- 5 lockable castors

Flip chart Design	No. 4539
Paper roll, 35 m	No. 4539-1

Subject to technical alterations, as well as to changes of the design and the colour
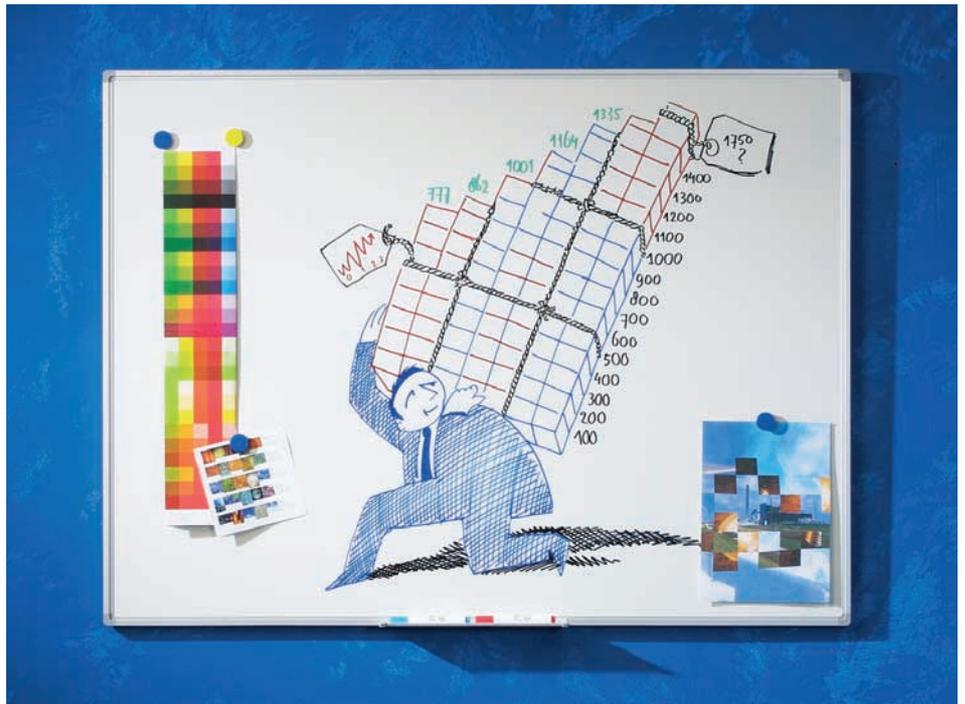
Whiteboards
The classic writing boards for conferences, presentations and meetings

- Solid construction
- Long life
- For whiteboard markers
- Can be dry-wiped
- Magnetic surface
- For horizontal or vertical position
- For wall mounting
- 25 years warranty for enamelled surface

Whiteboards PRO

The PRO series features an enamelled long life surface that can be easily dry-wiped. Supplied with mounting kit and pen tray. Board frame made of aluminium.

Size 60 x 90 cm	No. 4540-0
Size 90 x 120 cm	No. 4540-1
Size 100 x 150 cm	No. 4540-2
Size 90 x 180 cm	No. 4540-3
Size 120 x 180 cm	No. 4540-4
Size 100 x 200 cm	No. 4540-5

Whiteboards ECO

The ECO series for the small budget features a colour-coated writing board.
Supplied with mounting kit and pen tray. Board frame made of aluminium.

Size 60 x 90 cm	No. 4640-0
Size 90 x 120 cm	No. 4640-1
Size 100 x 150 cm	No. 4640-2
Size 90 x 180 cm	No. 4640-3
Size 120 x 180 cm	No. 4640-4
Size 100 x 200 cm	No. 4640-5

Accessories

Whiteboard marker	No. 5806-1
Starter kit	No. 4527

Pin boards
Ideal for pinning memos, posters, instructions, notices

Softline design with stylish looks. Delivered with mounting kit.

The pin boards are available with different surfaces:
Felt: blue or grey
Cork: beige

Pin board, cork, beige, 60 x 90 cm	No. 4740-0
Pin board, cork, beige, 90 x 120 cm	No. 4740-1

Pin board, felt, blue, 60 x 90 cm	No. 4741-0
Pin board, felt, blue, 90 x 120 cm	No. 4741-1

| Pin board, felt, grey, 60 x 90 cm	No. 4742-0
Pin board, felt, grey, 90 x 120 cm	No. 4742-1

! **Please note:**
Other sizes, colours and other board surfaces (e.g. blackboards) are available on demand!

The proper guideline for large-screen projection

How to choose the proper type of screen

Which screen is to be preferred first of all depends on the application. For frequent shows in the same location a wall or ceiling screen - manually or electrically operated, with or without frame - should be considered. For shows in different locations a tripod screen resp. a portabe screen is the better solution.

electrical – installed	manual – installed	framed screen	tripod – mobile
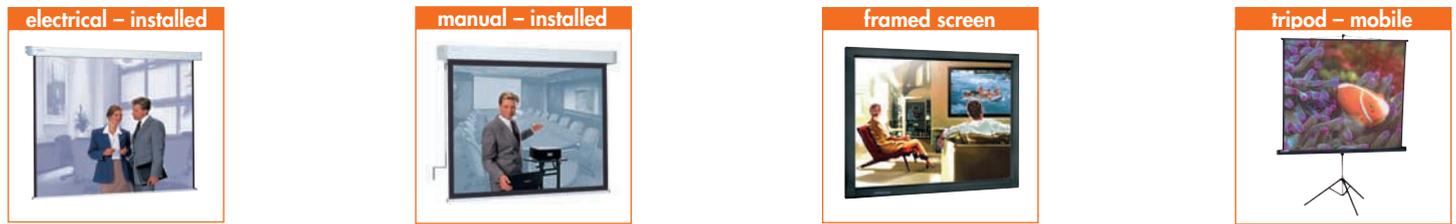
How to choose the proper picture format

Standard format
for overhead
or slide projection

1:1

Video format
for video presentations
or TV

4:3

Home cinema format
for DVD or HDTV

16:9

How to choose the proper height of the screen (4:3)
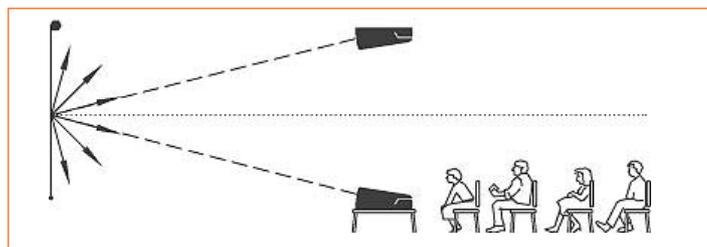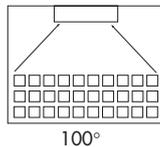
- Height of the screen
  = one sixth of its distance to the last row of seats
- Distance between the screen and the first row of seats
  = height of the screen x 1.5
- Minimum distance between the screen bottom and the floor
  = 0.60 – 0.90 m for home cinema use
  = 1.25 m if the audience is sitting
  = 1.60 m if the audience is standing

200 cm
height of the screen

125 cm
minimum distance
to the floor

800 cm   400 cm
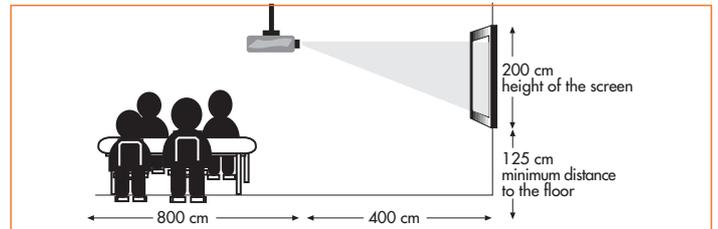
How to choose the proper screen fabrics

**Matt white – Datex/R – HighContrast/S**

- Ideal viewing angle 50°
  (to the left or right of the image centre)
- Gain factor 1
- For lecture rooms in which
  the ambient light can be easily controlled

100°

Datalux

- Ideal viewing angle 35°
  (to the left or right of the image centre)
- Gain factor 2
- For bright lecture rooms and projectors with
  a low light output

70°

Matt white – The screen fabric matt white is undoubtedly the first choice and guarantees bright, natural colours without a loss of intensity.
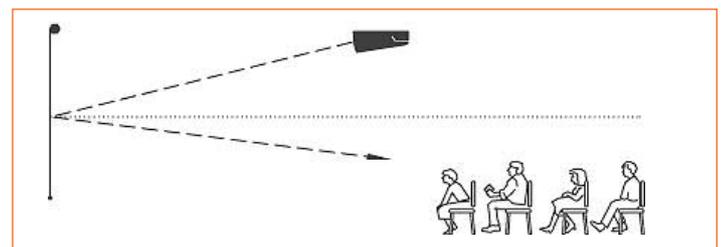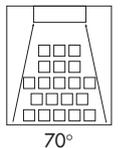
Datalux – The screen fabric datalux was developed for special applications that require a higher reflection value and a smaller viewing angle. It is ideal for projection from the ceiling.

Fabric type	Reflection value	Viewing angle	Weight per sqm	Thickness mm	Used in
Matt white/S	1.0	50°	425	0.34	Installation/mobile
Matt white/M	1.0	50°	1350	0.95	Elpro/Hapro
Matt white/D	1.0	50°	490	0.26	FastFold
Matt white/P	1.0	50°	480	0.45	Home Screen
Matt white/W	1.1	40°	900	0.65	Cineroll Electric Advanced
Matt white/WP	1.1	40°	500	0.35	Cineflex Electric IR
Matt white/WF	1.1	40°	600	0.35	Cinelux Mobil 2
Matt white/WD	1.1	40°	400	0.27	Cinelux Compact Mono
Datex/R	1.8	30°	490	0.26	Fastfold
HighContrast/S	1.0	45°	540	0.36	Home cinema
Datalux/F	2.2	35°	160	0.11	Table-/LiteScreen
Datalux/S	1.5	35°	425	0.35	Installation/mobile
Datalux/M	1.5	35°	1400	1.00	Elpro/Hapro

Elpro electrol – Easy Install
The professional electrical model

- Perfectly flat projection image
- Easy adjustment
- 3 m connection and on-wall switch
- All screens also available with built-in radio remote control.

Standard format 1:1

Overall dim.	Screen size	Matt white/M	Datalux/M
180 x 180 cm	173 x 173 cm	No. 5927	No. 5929
200 x 200 cm	195 x 195 cm	No. 5928	No. 5933
240 x 240 cm	230 x 230 cm	No. 5973	No. 5934
300 x 300 cm	290 x 290 cm	No. 5931	No. 5932

Video format 4:3

Overall dim.	Screen size	Matt white/M	Datalux/M
138 x 180 cm	126 x 168 cm	No. 5980	No. 5980-1
153 x 200 cm	143 x 190 cm	No. 5939	No. 5937
183 x 240 cm	173 x 230 cm	No. 5972	No. 5974
228 x 300 cm	218 x 290 cm	No. 5940	No. 5938

Compact electrol – Easy Install
The efficient economy screen

- Easy wall and ceiling mounting through integrated mounting kit
- 3 m connection and on-wall switch
- Low-noise motor

Standard format 1:1

Overall dim.	Screen size	Matt white/S
160 x 160 cm	151 x 151 cm	No. 7400
180 x 180 cm	173 x 173 cm	No. 7400-1
200 x 200 cm	195 x 195 cm	No. 7400-2
240 x 240 cm	230 x 230 cm	No. 7400-3

Video format 4:3

Overall dim.	Screen size	Matt white/S
123 x 160 cm	110 x 146 cm	No. 7400-4
138 x 180 cm	126 x 168 cm	No. 7400-5
153 x 200 cm	143 x 190 cm	No. 7400-6
183 x 240 cm	173 x 230 cm	No. 7400-7
228 x 300 cm	on demand	No. 7400-8

Cineroll Electric Advanced
The professional model for permanent installation

- Square steel casing 8.5x8.5 cm for screens up to 240 cm width resp. 10.5x10.5 cm for screens of bigger size
- No visible screws on the casing
- Automatic stop position when winding or unwinding the screen

4 : 3 format with black rim

Standard format 1:1

Overall dim.	Screen size	Matt white/W
180 x 180 cm	180 x 180 cm	No. 7413
200 x 200 cm	200 x 200 cm	No. 7413-1
250 x 250 cm	250 x 250 cm	No. 7413-8
300 x 300 cm	300 x 300 cm	No. 7413-3

Video format 4:3

Overall dim.	Screen size	Matt white/W
135 x 180 cm	129 x 172 cm	No. 7413-4
150 x 200 cm	144 x 192 cm	No. 7413-5
180 x 240 cm	174 x 232 cm	No. 7413-6
225 x 300 cm	219 x 292 cm	No. 7413-7

SlimScreen electrol
The low-budget electrical model

- Easy wall and ceiling mounting through integrated mounting kit
- 3 m connection and on-wall switch
- Low-noise motor

Standard format 1:1

Overall dim.	Screen size	Matt white/S
180 x 180 cm	173 x 173 cm	No. 7416-1
200 x 200 cm	195 x 195 cm	No. 7416-2

Video format 4:3

Overall dim.	Screen size	Matt white/S
138 x 180 cm	126 x 168 cm	No. 7416-4
153 x 200 cm	143 x 190 cm	No. 7416-5

! We offer more electrical screens, even large format models up to 5 m width and models for the small budget. Please ask for more information!

Pro Screen – Easy Install
The high-quality model with spring mechanism

- Big rotary shaft for flat projection screen and powerful spring mechanism
- Easy wall or ceiling mounting through integrated mounting kit

Standard format 1:1

Overall dim.	Screen size	Matt white/S	Datalux/S
180 x 180 cm	173 x 173 cm	No. 5950	No. 5953
200 x 200 cm	195 x 195 cm	No. 5951	No. 5961
240 x 240 cm	235 x 235 cm	No. 5952	No. 5952-1

Video format 4:3

Overall dim.	Screen size	Matt white/S	Datalux/S
138 x 180 cm	126 x 168 cm	No. 5950-1	
153 x 200 cm	143 x 190 cm	No. 5955	No. 5963
183 x 240 cm	173 x 230 cm	No. 5956	No. 5965
213 x 280 cm	203 x 270 cm	No. 5962	No. 5962-1

Slim Screen (XL)
The basic model with spring mechanism

- Spring mechanism for hassle-free rolling of the screen
- Easy wall or ceiling mounting through integrated mounting kit

Standard format 1:1

Overall dim.	Screen size	Matt white/S	Datalux/S
160 x 160 cm	151 x 151 cm	No. 5992	No. 5994
180 x 180 cm	173 x 173 cm	No. 5993	No. 5995
200 x 200 cm	195 x 195 cm	No. 5995-1	No. 5995-2
244 x 244 cm(XL)	234 x 234 cm	No. 5995-3	

Video format 4:3

Overall dim.	Screen size	Matt white/S	Datalux/S
123 x 160 cm	110 x 146 cm	No. 5996	No. 5998
138 x 180 cm	126 x 168 cm	No. 5997	No. 5999
153 x 200 cm	143 x 190 cm	No. 5999-1	No. 5999-2
185 x 244 cm(XL)	175 x 234 cm	No. 5999-3	

Standard wall screen
For the small budget

- For wall or ceiling mounting
- Mechanism for flat projection surface
- Easy rolling of the screen

Other sizes on demand!

Standard format 1:1

Overall dim.	Screen size	Matt white
157 x 171 cm	152 x 152 cm	No. 6927-10
184 x 198 cm	178 x 178 cm	No. 6927-20
224 x 237 cm	216 x 216 cm	No. 6927-30

Video format 4:3

Overall dim.	Screen size	Matt white
151 x 129 cm	146 x 110 cm	No. 6927-11
176 x 147 cm	171 x 128 cm	No. 6927-21
209 x 172 cm	203 x 152 cm	No. 6927-31

Cinelux Compact Mono
The mobile economy model

- Easy and quick to set up, ideal for the home cinema
- Special tensioning mechanism for a flat screen
- Stepless height adjustment, tiltable

Video format 4:3

Overall dim.	Screen size	Matt white/WD
120 x 160 cm	117 x 156 cm	No. 7427
135 x 180 cm	132 x 176 cm	No. 7427-1
150 x 200 cm	147 x 196 cm	No. 7427-2

! We offer more manually operated mobile and wall screens. Please ask for more information!

Pro Star
The top of the range model

- Extremely sturdy stand, square bars, with Keystone bracket
- Handle with integrated stop for easy height adjustment
- Foot switch for easy folding of tripod

Standard format 1:1

Overall dim.	Screen size	Matt white/S	Datalux/S
180 x 180 cm	173 x 173 cm	No. 7401-0	No. 7401-1
200 x 200 cm	195 x 195 cm	No. 7401-2	No. 7401-3
240 x 240 cm	235 x 235 cm	No. 7401-4	No. 7401-5

Video format 4:3

Overall dim.	Screen size	Matt white/S	Datalux/S
138 x 180 cm	126 x 168 cm	No. 7401-6	No. 7401-7
153 x 200 cm	143 x 190 cm	No. 7401-8	No. 7401-9
183 x 240 cm	173 x 230 cm	No. 7401-10	No. 7401-11

Pro View
The attractive economy screen

- Easy to carry for universal use
- Easy to install
- Sturdy stand, tube bars, with integrated Keystone bracket

Standard format 1:1

Overall dim.	Screen size	Matt white/S
125 x 125 cm	120 x 120 cm	No. 5920
160 x 160 cm	151 x 151 cm	No. 5921
180 x 180 cm	173 x 173 cm	No. 5922

Protective covers are available for Pro Star and Pro View models. Ask for details.

Standard tripod screen
For the small budget

- Black metal case and tripod
- Mechanism for flat projection surface
- Low weight and compact design

Standard format 1:1

Screen size	Matt white
125 x 125 cm	No. 6927
155 x 155 cm	No. 6927-1
180 x 180 cm	No. 6927-2

Fast Fold
The mobile model for large-screen projection

- Solid light-weight aluminium frame
- Stand and frame collapsible for transport
- Easy to install, no tools required
- Supplied with sturdy case for transport and storage

Video format 4:3

Overall dim.	Screen size	Matt white/D	Datex/R
160 x 213 cm	150 x 203 cm	No. 5909	No. 5909-1
183 x 244 cm	173 x 234 cm	No. 5905	No. 5905-1
228 x 305 cm	218 x 295 cm	No. 5906	No. 5906-1
274 x 366 cm	264 x 356 cm	No. 5907	No. 5907-1
320 x 427 cm	310 x 417 cm	No. 5908	No. 5908-1

! We offer more tripod screens. Please ask for more information!

Pro Cinema – Easy Install
The manual wall screen

- Strong spring mechanism for lowering and rolling up the screen
- With extra high black border on top for an ideal viewing angle
- Also available with black housing

Video format 4:3

Overall dim.	Screen size	Matt white/S	HighContrast/S
123 x 160 cm	110 x 146 cm	No. 7409	No. 7409-10
138 x 180 cm	126 x 168 cm	No. 7409-1	No. 7409-11
153 x 200 cm	143 x 190 cm	No. 7409-2	No. 7409-12
183 x 240 cm	173 x 230 cm	No. 7409-3	No. 7409-13

Home cinema format 16:9

Overall dim.	Screen size	Matt white/S	HighContrast/S
90 x 160 cm	82 x 146 cm	No. 7410	No. 7410-10
102 x 180 cm	95 x 168 cm	No. 7410-1	No. 7410-11
117 x 200 cm	107 x 190 cm	No. 7410-2	No. 7410-12
139 x 240 cm	129 x 230 cm	No. 7410-3	No. 7410-13

Home Screen II
The elegant model with frame

- With flat, 8 cm wide black aluminium frame
- Easy mounting

Video format 4:3

Overall dim.	Screen size	Matt white/P
136 x 176 cm	120 x 160 cm	No. 7408
166 x 216 cm	150 x 200 cm	No. 7408-1
199 x 256 cm	183 x 240 cm	No. 7408-2

Home cinema format 16:9

Overall dim.	Screen size	Matt white/P
118 x 196 cm	102 x 180 cm	No. 7408-4
128 x 216 cm	112 x 200 cm	No. 7408-5
155 x 256 cm	139 x 240 cm	No. 7408-7

! We offer more home cinema screens. Please ask for more information!

Accessories

Mounting brackets	
100 cm long (can be shortened) for Elpro large electrol, Elpro electrol, Hapro manual, Cinelpro electrol	No. 5941
100 cm long (can be shortened) for Cineroll Electric Advanced	No. 5941-1
100 cm long (can be shortened) for Pro Cinema, Cinema electrol, Compact electrol, Pro Screen, Slim Screen	No. 7411
100 cm long (can be shortened) for Slim Screen XL	No. 7411-1

Keystone brackets	
75 cm long for Compact electrol, Elpro electrol, Hapro manual, Pro Screen, Cinelpro electrol, Cinema electrol, Pro Cinema	No. 5942
40 cm long for Elpro large electrol	No. 5942-1
57 cm long for Slim Screen (not XL)	No. 5942-2
40 cm long for Cineroll Electric Advanced	No. 5942-3

Wall clamps	No. 5943
To prevent distortion of the image. To be used in combination with No. 5942-x.	

Radio remote control	No. 5944-0
with wireless switch and mobile sender up to 30 m distance	

Key switch	No. 5944-1
against unauthorized use	

Pull rod	No. 5959
for all manually operated screens, 130 cm long	